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ABSTRACT

This curriculum guide provides materials for nine courses taught in the readiness program for students 15 years of age and over who are not benefiting from education in regular educational settings. (The program is intended to identify a suitable occupational field in which students can succeed and to develop their social and emotional readiness and behavior to function successfully in all occupational training programs.) Introductory materials include the program's basic philosophy, objectives, criteria for entrance into the Occupational Readiness Center, and course descriptions. Outlines follow for each course that combine academic instruction with student experience in a "live work" situation. Courses cover these trade/occupational clusters: metal trades, automotive trades, building trades (masonry/carpentry), building trades (electrician/plumber), building maintenance, horticulture/floriculture occupations, food trades, cosmetology/personal grooming, and health/personal service occupations. The courses are divided into units corresponding to specific job titles and occupations. Each unit presents this information: job title, job duties, working conditions, job requirements, job conditions, basic skills and knowledge, job practice, academic demands, additional job information, and evaluation. A unit outline details learning goals; learning activities; tools, equipment, and supplies; new terminology; math; and text, workbook, and other supplies. Some student information forms are appended. (YLB)

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Occupational Readiness Center



BOARD OF COOPERATIVE EDUCATIONAL SERVICES

Putnam/Northern Westchester Education Center Yorktown Heights, New York 10598 • (914) 245-2700

> 2nd Edition June 1982

CORRICOLO

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	•	HORTICULTURE/FLORICULTURE OCCUPATIONS
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ERI

BASIC PHILOSPHY

All individuals are entitled to an education according to their abilities. The student who may not be benefiting from education in regular educational settings, should not be excluded, but has equal rights to achieve to the limit of his or her abilities.

The procedure and organization of his education experiences must be adapted to his competencies and needs. His or her education must begin at his level of academic, social and emotional experiences, and progress at a pace adapted to the individual. During this process of education, the individual must be helped to accept the reality of his ability level. Therefore, this education does stress social and academic skills within the occupational areas. These are the areas in which he or she may achieve success if given individualized instruction in concrete situations that can be both observed and experienced. The individual is directed at this time towards an occupational decision that is practical and realistic.

Upon leaving the school environment, the student will find it necessary to live and compete in a complex society. Thus it is deemed necessary that the school attempt to help the individual understand himself as a person and as a member of society.

With this guidance, it is hoped that the student may gain self-respect and may make the best possible adjustment in the community in which he or she lives and works.

EDUCATIONAL OBJECTIVES

- GENERAL OBJECTIVE
 To provide information and experiences leading to a logical selection of specific occupational training.
- II. SPECIFIC OBJECTIVES

 2. To continue to crientate student to the concept of work and its physical, social and emotional implications.
 - b. To explore with student the training and employment opportunities in the various occupational areas.
 - c. To discover occupational-potentialities and interests.
 - d. To provide realistic occupational experiences for the purpose of student teacher evaluation of the student.
 - e. To develop readiness for specific occupational training.
 - f. To promote academic motivation through occupational exploration.

CRITERIA FOR ENTRANCE INTO O.R.C.

A candidate should:

- 1. Be 15 years of age and have a maturity level which would indicate probable success in the program.
- 2. Have had some orientation toward work.
- 3. Have a level of coordination which would indicate probable success in the program.
- †4. Have an acceptable attendance record.
- 5. Exhibit behavior patterns and a stability which would indicate probable success in the program.
- 6. Have shown ability to work independently.
- 1. Be able to understand and accept directions.
- 8. Exhibited safe work habits.

OCCUPATIONAL READINESS CENTER

(READ INESS PROGRAM EXPLANATION)

The program has two basic goals: the identification of a suitable occupational field in which students can be successful and enjoy, and the development of the students' social and emotional readiness and behavior that will enable them to function successfully in a future occupational training program. These goals are accomplished by having the stuts participate in a variety of occupations by experiencing them in "live work" situations and by providing academic instruction related to each occupation.

(COURSE DESCRIPTIONS)

METAL TRADES Course Code 985 & 995

YORKTOWN

Metal working, machining occupations, and drafting are covered. Included are sheetmetal worker, general machine operator, machinist apprentice, welder and electromechanical repair worker. Related academics cover vocabulary, language arts, applied math and science. Students operate various machines, use hand and power tools, perform drafting and welding experiences, and become aware of and practice the safety requirements needed in this field.

AUTOMOTIVE TRADES

Course Code 985 & 995

YORKTOWN

The automotive trades occupations are experienced. Included are auto mechanic, lubrication and tire specialist, service station_mechanic, small engine mechanic and auto body worker. Related academics cover vocabulary, safety, language arts, applied math and science. Students practice and work on non-operating cars using hand and power tools, testing equipment, practice on engines, and perform selected projects.

BUILDING TRADES

Masonry/Carpentry

Course Code 985 & 995 Course Code 986

YORKTOWN FOX MEADOW

The various construction trades are covered, such as bricklayer, carpenter, sheetrocker, blocklayer, taper, roofer and painter. Related academics include vocabulary, language arts, related math and science. Students build various models and mock structures, moving from one trade to the next using appropriate hand and power tools. Safety as it relates to this industry is an integral part of a youngster's instructional program.

BUILDING TRADES Electrician/Plumber

Course Code 985 & 995.

YORKTOWN

The various construction trades are experienced, such as plumber, electrician, plumber's helper and electrician's helper. Related academics include vocabulary, language arts, related math and science. Students build various models and mock structures, moving from one trade to the next using appropriate hand and power tools. Safety as it relates to this industry is an integral part of a youngster's instructional program.

BUILDING MAINTENANCE

Course Code 995

YORKTOWN

Building maintenance and custodial occupations are experienced. Included are industrial/commercial maintenance worker and custodians. Related académics are covered and

(continued on reverse side)



students operate the many pieces of hand and power equipment used in this field.

HORTICULTURE/FLORICULTURE OCCUPATIONS

Course Code 985 & 995

YORKTOWN

Several floriculture/horticultural occupations are covered, including nursery worker and helper, landscape gardener and helper, greenhouse worker, horticulturist and floriculturist. Related academics include language arts, related math and science. Students plant, propagate floral and ornamental plants, and perform small construction projects, laboring jobs, and operate small equipment, hand and power tools.

FOOD TRADES

Course Code 980 & 990

YORKTOWN

Various occupations in the quantity food preparation and service field are covered, including chef, cook, baker, cafeteria worker, kitchen helper, waiter and waitress. Related academics include communication skills, related math and science. The students perform all aspects of this work including the preparation and service of food in a miniature cafeteria-restaurant.

COSMETOLOGY/PERSONAL GROOMING

Course Code 985 & 990 -

YORKTOWN

Cosmetology occupations are covered. They are manicurist, hair dresser/beautician. Students will perform various aspects of this work and emphasis will be placed on personal grooming, hair and skin care, shampooing and hair setting. Related academics include communication skills, related math and science concepts. Personal grooming experiences will be provided for selected students in need of pre-occupational preparation.

HEALTH/PERSONAL SERVICE OCCUPATIONS

Cousrse Code 980 & 990

YORKTO

Several Health/Personal Services and Child Care Occupations will be included. Occupations to be experienced are orderly, ward clerk, nurse's aide, private household worker, day care center aide and other related occupations. Academics include science, math and related communication skills. Personal Service Occupations will be provided for selected students who would benefit from an exposure to motel/hotel housekeeping areas.





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METAL TRADES

ERIC Full Reat Provided by ERIC

COURSE: METAL TRADES

UNITS:

'First Quarter

General Machine Operator
Drill Press Operator
Lathe Operator
Machinist Apprentice
Electro-Mechanical Repairman (Appliances)
Small Engine Repairman
Welder (Electric and Gas)
Draftsman (Mechanical)
Ironworker

Second Quarter

Same as First Quarter .

. Third Quarter

Same as First Quarter

Fourth Quarter

Same as First Quarter

Trade: Metal.

L. JOB TITLE: General Machine Operator

IL JOB DUTIES:

To place rough metal stock in a machine tool and follow the direction of a skilled set-up man Make minor adjustments to keep the tool operating Follow blueprints

Use measuring tools for checking accuracy of operation

Select lubification for operation

IIL WORKING CONDITIONS:

Paid hourly on incentive rates

Must wear safety equipment.

Usually in a factory type production setup

Must work at an operating machine where oil, metal chips and some lubricating fumes are evident

Noise factor is considerable

IV. JOB REQUIREMENTS:

Background in general machine operation to include the following:
Metal identification
Metal characteristics
Cutting principles
Precision measuring-micrometer and vernier

V. JOB CONDITIONS:

Determined by field trips, guest speakers, etc.

VL BASIC SKILLS AND KNOWLEDGE:

Must understand basic machine tool operation to operate more complicated production machines

Must understand the following: measurement, cutting principles, electric motor controls, lubrication,
speeds and feeds

VIL JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Must be able to read instructions, blueprints, manuals and handbooks

Math: Must be able to make precision measurements -

Must understand decimals

Verbal: Must know machine tool operation nomenclature to communicate with supervisor on setup man

Written: Must be able to make out production reports, time sheets and job estimates

ADDITIONAL JOB INFORMATION:

- 1) Disadvantages: The introduction of new more sophisticated production machines will limit the number employed in this area.

 Other factors such as new processes might offset this
- 2) Advantages: Able to be employed without extensive training Can be a semi-skilled operator in a few weeks or after a short training period Incentive pay enables worker to work harder and earn more
- 3) Training opportunities: On the Job-Vocational School

OCCUPATION: General Machine Opérator

LEARNING GOALS

LEARNING ACTIVITIES

TOOLS, EQUIPMENT SITPPLIES

NEW TERMINOLOGY MATH

TEXT, WORKBOOKS. OTHER SUPPLIES

- ... To learn all safety procedures to be followed as a General Machine-Operator
- ... Machine, eye and fellow worker safety
- ... To identify the types of machinery and understand operation ... Understand how machines are set up 'and used for production ... Know how to conduct a safe machine operation
- ... To produce a single, well-made machine item project
- ... To be able to perform spark test on metals
- ... To become familiar with Job Planning (basic drawing, selection of materials, etc.)

... Practice Safety

- ... Using metal lathe, shaper drill press and grinder to begin introduction to machine tool operation ... Layout of initial project-machinist hammer. Figure stock and begin turning from 1"-1/2" steel stock.
- ... Develop a plan for a hammer ... Comparison of pictures of characteristic sparks and matching of these with written fill-in notes identifying their corresponding types of metal
- ... Practice "dry runs" through job procedures-working drawing, job plan, bill of materials, choosing stock, etc.
- ... Practice looking up materials in catalogs and filling out order blanks and correctly making out arithmetic sections of order blanks
- ... Handling metals in the class each of which is characterized by features such as tensil strength and then describing them on mimeo fill out outline notes and on the chalk board
- ... Vocabulary: Spelling, usage and comprehension of related terminology
- ... Math: Basic measurement and drafting skills reviewed and reinforced
- ... Science: Basics of electricity and physics in relation to machine

Machine Lathe Shaper **Drill Press Grinders**

- · a) Tool Post
- b) Tool bit

All lathe accessories

- a) Chucks
- b) Boring tools
- c) Tool bits

All bench tools needed

- a) Ball peen hammer
- b) Files
- c) Vises
- d) Wrenches
- e) Scratch awl
- f) Center punch
- g) Prick punch
- h) Cold chisels
- i) Aviation snips

VOCABULARY

Machine tool Lathé operation Cylindrical Drilling Borina Cutting speed Longitudinal Feed Cross feed

Lathe chuck

Chucking Tool bits

Tool holder **Grinding**

Facing

Centerdrilling

Lathe centers

Aligned

Lathe dog Reaming

Kurling

Steady rest

Threading Micrometer /

Tensile

Strenath

Conductibility

Ductility Hardness

Hardenability

Elasticity

Machinability Brittleness

Toughness

Corrosion resistance

Metalwork Technology and Practice, Ludwig Technicial Metals, Johnson Technical Metals . Workbood . . Occupational Dictionary Occupational outlook Handbook

FILMS

Safety in the Ship: Basic Practice - 13 min. **BOCES Library** Metal Ship Safety - 13 min. **BOCES Library** Saga of Safety Same - 12 min. BOCES Library Drama of Metal Forming . 28 min. BOCES Library Aluminum: Metal of Faces Department of the Interior, Bureau of Mines Silber Department of Interior, Bureau

FIRLD TRIPS Hudson Wire Works Ossining, New York Phelps Doge Mfg. Division - Yonkers, New York

Teacher Made Materials

of Mines



COURSE: Metal Trades

OCCUPATION: General Machine Overator

NQ. I

				•
LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER SUPPLIES
	operation Occupation: Discuss the job and its requirements, opportunities and accessibility		MATH Review measurement concepts to one-sixteenth of inch. Introduce micrometer and skills necessary.	
- ·			•/	o
ERIC	15		16	•

Trade: Metal

I. JOB.TITLE: Drill Press Operator

IL JOB DUTIES:

Selects drills and adjusts speeds for production work

Measures position of holes to be drilled

Sharpens drills for operation

Reads prints to insure accuracy of work

III. WORKING CONDITIONS:

Works in coordination with production personnel usually standing and operating automatic feed, or performing manual operations

Works in a well-lighted and clean surroundings where noise is not a severe problem. Size of machine could vary where heavy and light loads must be processed.

IV. JOB REQUIREMENTS:

Background in machine operations
Blueprint reading
Knowledge of metals
Understanding heat treatment of metals

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VL BASIC SKILLS AND KNOWLEDGE:

Use of basic machine tools
Sharpening of drills
Understanding of heat treatment
Knowledge of abrasives
Measurement and blueprint reading

VII. JOB PRACTICE:

Shop and laboratory experience

VIII ACADEMIC DEMANDS:

Reading: Must be able to read basic instructions for production

Must be able to read technical information on how to operate and maintain the machine he

is operating

Math: Must be able to measure with a micrometer inside and outside

Must be able to understand speed formulas for various kinds of metals and drills

Must be able to lay out angles and distances with reasonable accuracy

Verbal: Must understand the nomenclature of the machine and be able to communicate this to other

workers and his supervisor

Written: Must be able to fill in work records, keep time sheets and process any other reports such as

accidents, etc.

ADDITIONAL JOB INFORMATION:

- 1) Disadvantages: The repeating of a similar operation many times might seem to be a difficult task
- s Standing at the machine for long periods
- 2) Advantages: Employment is found in a wide range of industries
 The job can be learned in a few weeks
 Comfortable inside working conditions
- 3) Training opportunities: On the Job-Vocational Schools

NO. 2

NEW TERMINOLOGY

MATII

OCCUPATION: Drill Press Operator

٠.
LEARNING GOALS
To learn all the safety rules and precautions when working in the ship at the drill press. Eye safety Clothing Cleaning To learn the function of a motal cutting drill and to be able to sharpen drill To understand cutting speeds for all metals To understand aspect of metal hardness (Brinell Hareness Test, etc.) To be able to accomplish drill press operation layout procedures To be able to follow blue prints for production to .001"
,

LEARNING ACTIVITIES	TOOLS, EQUIPMENT, SUPPLIES
Practice Safety Hammer Drill metal for boy interest projects such as Go Carts, Mini bikes, Small machine tools, etc Drill metal for general maintenance projects Teacher-student projects Math: Review principles in addition, subtraction, multiplication, and division of fractions and decimals English: Comprehension of new terminology, its usage, spelling, etc Science: Discuss principles of electricity and physics which relate to drill press operations Occupational: Drill Press Operator	Drill presses All drill sizes from one- sixteenth to one-half 29 drills fractional sizes Layout tools such as Di- vider Surface gauge Surface table Combination square Center punch set Chisel set Counter link Special chuck and keys a) Universal b) Jacobs Assorted metal for fabrication sheet, plate, rod Angle and square

Arbor press FILMS Chuck jaw It Didn't Have To Happen Chuck key 15 Minutes **BOCES Library** Carbon steel Jobs and Interviews Drlll Drill Chudk 15 Minutes **BOCES Library** Drill shank Drill gauge The Use and Care of Twist Drill sleeve Drill Drill press 23 Minutes spindle Free Film Drill socket Handouts of diagrams -Drill stand Drill Press Drilling Teacher made materials -Flat drill Metal Occ. Tapered shank Metalwork Technology and Straight shank Practice Straight fluted drill Metalwork Technology and Body clearance Practice Workbook Continue to emphasize frac-Technical Metals tions and decimal under-Technical Metals standing and importance. Workbook Stress procedure Occupational Outlook Handbook Occupational Dictionary Basic Mathematics Practical Problems in Matinematics Field Trips Hudson Wire Works Ossining, New York

TEXT WORKBOOKS OTHER SUPPLIES

Trade: Metal .

I. JOB TITLE: Lathe Operator.

II. JOB DUTIES:

Tends one or more previously set-up lathes to perform repetitive operations

Operations include turning, boring, threading, facing

Operates machine to feed tools to workpiece and engages automatic feed

Verifies conformity of machined work to specifications using fixed gauges, calipers and micrometers

Changes worn tools and may change machine speeds, feed rates and depth of cut

May work with nonmetallic materials

III. WORKING CONDITIONS:

Works in a factory with many other operators doing the same job Machine tool operators are paid hourly or incentive rates Must wear protective glasses when operating machine tools Most machine shops are relatively clean and well-lighted Machine work is not strenuous but the operator must stand all day

IV. JOB REQUIREMENTS:

Background in machine operations, blueprint reading, working knowledge of the properties of metals Good vision and superior depth perception

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VI. BASIC SKILLS AND KNOWLEDGE:

Use of hand and machine tools
Elueprint reading
Precision measurement
Science of the properties of metals

VII. JOB PRACTICES:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Must be able to read operations sheets, blueprints

May be required to read manuals and handbooks

Math: Precision measurement, addition and subtraction of dimensions and angles

Interpret blueprints

May be required to use formulas to compute machine speed, feed, depth of cut

Verbal: Must be familiar with machine tool nomenclature in order to communicate with fellow workers

and supervisor

Written: Must be able to fill out time sheets

May have to complete job estimates

ADDITIONAL JOB INFORMATION:

- 1) Disadvantages: Employment of workers doesn't expand as fast as demand due to the increasing productivity brought on by automation
- 2) Advantages: Employment in a wide range of industries
- 3) Training opportunities: On the Job Apprenticeship programs Vocational Schools



NO. 3

OCCUPATION: Lathe Operator

LEARNING GOALS

Understand safety procedures when operating the metal lathe.

Goggles Cleaning Clothing

... To understand machine lathe nomenclature

... To have an understanding of metal cutting principles ... To know straight turning bewteen centers and with use of chucks.

.... To know knurling, facing, shoulder cuts and polishing ... To follow and understand a simple machine drawing ... To know general machine operation

LEARNING ACTIVITIES

... Practice Safety
;;; To operate the machine
lathe and produce a simple
machine project (See blue
print)

... To perform, set up and maintain operations such as drilling, centering, facing, polishing and to use the micrometers

... Student project

... Study metal characteristics and cutting speeds

... Read and observe the text and workbooks on "how to" for machine operations (See text reference)

... Review all aspects of safety (eye) and other

... View transparencies on techniques and procedures on the lathe

... Locate parts and functions of lathe on diagrams of the lathe-fill in mimeo sheets TOOLS, EQUIPMENT,
____SUPPLIES

South Bend Lathe
10" with assorted 20 tool
equipment
Tool post grinder
Measuring tools
Calopers
Micrometers-inside and outside
Assorted hand tools
Box end wrenches
Open end wrenches
Files
Plastic hammer
Pliers
Oil for lubrication

7" pedestal grinder and as-

Abrasive papers

sorted tool bit set

NEW TERMINOLOGY
MATII

Micrometer decimal place
Inside micrometer
Depth micrometer
Thimble
Sleeve
Spindle
Ten-thousandth micrometer

Addition.
.600" + .050" + .031"
.900" + .075" + .011½"
Set micrometer to:
.001", .003", .060", .339",
.881", .999", .772", .39½",
.657½", .533¾", .352½..,
.3525", 1.010", 1.436",
1.849", 2.112", 2.677"
Whole numbers, Fractions
Decimals, Cutting speeds

VOCABULARY

Alignment Back gear lever Boring bar Boring tool Centerdrilling Chalk mark Chuck wrench Chuck Carriage Clamp dog Compound rest Countershaft Dead center Faceplate Facing Feed Gib . Handwheel Headstock' Knurling Lathe dog Lathe tool **RPM**

TEXT, WORKBOOKS OTHER SUPPLIES

FILMS

I Think
19 minutes
BOCES Library
The Turning Point
33 Minutes
Free Film
The Tools and Rules for
Precision
Measuring - 39 Minutes
Shop Procedures
17 Minutes
FIELD TRIPS
Hudson Wire works

Phelps Dodge Yonkers, New York

Ossining, New York

Teacher made materials
Metalwork Technology an
practices
Metal work Technology an
Practices Workbook
Basic Math simplified
Practical Problems in Mathe
matics; Machine Trades

COURSE: <u>Metal Trades</u>

OCCUPATION: <u>Lathe Operator</u>

NO. 3

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATIL SFM	TEXT, WORKBOOKS OTHER SUPPLIES
DEMOTING GOALS	GEAGININ ACTIVITIES		SFM Spinkle hold Straight tool Holder Tailstock Tool list Tool holder Tool post Three jaw Universal chuck Collet	
			•	, ·
		•		
			•	
•,				24
ric •	23			

Trade: Metal

I, JOB TITLE: Machinist Apprentice

IL. JOB DUTIES:

Engage in a learning program that would include many machine operations Perform the cleanup of various machines

Assist the experienced personnel in setting up machine operations

Carry out the routine maintenance of the machine shop

Conduct some of the basic production work that is not too complicated

III. WORKING CONDITIONS:

Similar to factory work where machines are operated in large rooms with other machines Hands get soiled Standing at machines while in operation Lifting some heavy work and some moving of very heavy equipment

IV. Jobrequirements:

Must understand all basic math, geometry and some algebra Must understand the science of machines; both mechanical and electrical Must be able to read well to-understand the operation of new and sophisticated machinery Must have good vision and physical ability

V. JOB CONDITIONS:

Determined by field trips, guest speakers, etc.

VL BASIC SKILLS AND KNOWLEDGE:

Must have a proven skill and ability in machine tool operation and the academic knowledge to engage in the learning program

VII. JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Must be able to read and understand operation sheets, job sheets, manuals and other technical instructions as requiréd

Math: All Basic math

Precision measurement, tolerances, gauges, and the use of formulae and charts

Must be able to relate to the more experienced personnel by use of machine Verbal:

nomenciature, etc.

Written: Must perform all the basic record keeping for maintenance and manufacture

Be able to take notes from instruction and write instructions for other workers

Requires a substantial vocabulary of machine and technical terms

ADDITIONAL JOB INFORMATION:

- l) Disadvantages: The time required to become a master machinist is long and the skill is substantial. The pay is not high and work depends upon production demands
- 2) Advantages: The work is not repetitive and allows for much inventiveness and special work-Job mobility should be good Can advance to other technical jobs in machine programming and tooling Can open own shop and subcontract
- 3) Training opportunities:

OCCUPATION: Machinist Apprentice

LEARNING GOALS	LEARNING ACTIVITIES
m. To understand all safety procedures and the safety awareness of the machinist apprentice General shop safety Machine guard and safety devices Clothing and cleaning safety The understand the basic nomenclature of the small metal lathe and to be able to operate for the following: Straight turning between centers to .001" Drilling Facing Crinding (Tool post) Tool Grinding To understand how to read a blue print and make a project such as a small machinist hammer	Practice safety Disassemble, inspect, and repair various kinds of machines Plan and produce repaired and new parts for maintenance Operate such machines as necessary for the above To make a small machinist hammer To heat treat a small machine part such as a punchTo repair, replace and maintain small machine devices for boy interest projects Math: Continue work with fractions, decimals, and measurementScience: Review basics in electricity and physics related to machine operation Math: Vocabulary, speliment ammer and usage Occupation: Discuss occupation in detail
	26

TOOLS, EQUIPMENT, SUPPLIES : Machine lathe Shaper Grinder -Metal Punch Shears-straight Shears-Beverly Hofkoss Bender Brake Forming Rolls Power hack saw **Band Saw** All assorted hand tools such as chisels, hammers, punciles, pliers, micrometers, gauges Small South Bend machine lathes with all accessories 1 tool post grinder Micrometers outside 1", 2", 3'44" Micrometer inside 1" to 5" Calipers Box and open end wrench set Threading tools 8-32 to 1" 4" tool bits 1" Round Stock fron machinable I" Round stock heat treatable

NEW TERMINOLOGY MATH **VOCABULARY** Lathe Grinder Milling machine Shaper Drill press Grinding wheel Chuck Twist Drill Squaring shears Bar Brake Forming Roll Rivets Pop Rivet Bolts Screws Nuts . Washers Pender * **Beyerly Shears** Metal Punch Power Hack Saw Cold Chisel Hammers Plierz **Micrometers** Gauge Hack saw Warding file MIII file Flat file Hand file Pillar file Square file Round file Half round file Three square file Knife file MATH *

Continue fractions stressing multiplication of fractions Discuss fraction conversion

OTHER SUPPLIES Metal work Technology and Practices Metalwork Technology and Practices Workbook, Ludwig Technical Metals, Johnson Technical Metals Workbook, Johnson Occupational Handbook Occupational Dictionary Basic Mathematics Simplified Practical Problems in Mathematics

TEXT, WORKBOOKS

FILMS I Am 14 Minutes **BOCES Library** Grinding Wheel Safety 20 Minutes Free Film Grinding Wheel 10 Minutes Free Film How to Select the Right Frinding Wheel 30 Minutes Free Film Modern Heat Treating Methods 15 Minutes Free Film Metal Band Saw 30 Minutes Tomorrow's Abraisive **Tools Today** 22 Minutés Free Film Your Job 13 Minutes BOCES Library

COURSE: Mariades

OCCUPATION: Machinist Apprentice (Cont'd)

NO. 4

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT, SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER SUPPLIES
•		SOTT LIES	main .	FILM LOOPS The All-around Machinist Encycolpedia Brittanic Vocational Series
				FIELD TRIPS Emery Mine Croton, New York Phelps Dodge Yonkers, New York
				Teacher Made Materials
		•		
•		•	,	
	,		•	•
ERIC	28			29

Trade: Metzi . .

L. JOB.TITLE: Electro-Mechanical Repairman (Appliance Repairman)

II. JOB DUTIES:

To disassemble electrical machinery
Inspect it and decide the course of action for repair
To repair electrical machinery and place it back into operation
To perform the routine preventive maintenance functions

III. WORKING CONDITIONS:

In a shop where tools and repair equipment are available
On the job where disassembly and installation take place
This would include working in some difficult places such as underground passages and on tall buildings
and, at times, in adverse weather

IV. JOB REQUIREMENTS:

Must be mechanically inclined Must have a basic talent for understanding electrical theory Mathematics for electrical theory

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VL BASIC SKILLS AND KNOWLEDGE:

To know how most basic machines operate to include pumps, winches, hydraulics, moving devices, fans, etc.

To understand basic electricity and control as related to the above mentioned machinery Must be able to diagnose machine problems and make a maintenance decision

VIL JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Must have a reading skill and vocabulary at about level (9)

This mostly for installation instructions and electrical theory training

Math: Must have a good basic knowledge of mathematics

There must be a knowledge of basic algebra to solve electrical equations:

Verbal: Must be able to communicate instructions on the job

Must be able to use electric communications for orders and various instructions

Written: Must be able to draw basic diagrams for appliance circuits

ADDITIONAL JOB INFORMATION:

- 1) Disadvantages: Work might be temporary
- 2) Advantages:
- Training opportunities:
 Apprenticeship
- IX. EVALUATION: As determined by teachers

NO. 5

OCCUPATION: Electro-Mechanical Repairman (Appliance Repairman)

LEARNING GOALS

LEARNING ACTIVITIES

TOOLS, EOUIPMENT. SUPPLIES

NEW TERMINOLOGY MATH

TEXT. WORKBOOKS OTHER SUPPLIES

Electricity Made

... To understand safety procedures of Electro-Mechanic Repairman Faulty wiring Overloading wire Broken wiree

... To be familiar with basic electricity Direct current Alternating current Ohms law, circuits and mag-

netism ... To understand how electrical machinery functions Motors Generators

Alternaters Magnetic devices

... To understand how to conduct a machine preventive maintenance operation To be able to install new replacement parts and to follow electrical installation procedures

... Practice safety procedures

... Remove, inspect and disassemble all types of electrical mechanical devices

... Repair, replace and reproduce machine parts of electrical devices

... Use the ohm meter for the detection of trouble in simple circuits

... Remove, inspect and replace electrical wires for the maintenance of circuits

... Read and follow installation instructions for electrical machinery

... Fill out worksheets on electrical and scientific terms and equations /

All machines and tools required for machinist, lathe operator and sheet metal worker Ohmeter .

Weston meter DC-0-1000 volts AC-0-1000 volts

Ohms. 0 to 100 Mea ohm

Insulating material

Tape Wire Terminal kit

Aligator clins Solder Variable voltage source such

as a battery charger Assorted fuses, bulbs and variable resistances

Ohm-resistance Ampere Voltage Battery Circuit Meter-multi tester Series Parallel ÁC

Insulator Magnetic Open and closed circuit

E I= R

E = IR

R = IResistance in series and parallel circuits Amps in serels and parallel circuits

P = IE

Reading Meter

Simple, Henry Jacobwitz Coubleday & Co. Metalwork and Technology Workbook Electricity, Gerrish Welders Guide (Elec.). Audel: Howard Sam Pub. Co. Handbook of Practical Electricity, Howard Sams Pub. Co. Motors-Guide For Mechanics Glenn's Automotive Repair Manual Automotive vacuum Wiring Diagrams

FILMS Principles of Electricity 20 Minutes BOCES Library

The Road Ahead 20 Minutes Telephone Co.

~ Electrons at Work 14 Minutes **BOCES Library**

Bell Solar Battery 12 minutes Telephone Co.

Electricity and How it is Made 16 Minutes . **BOCES Library**

What is Electric Current 14 Minutes BOCES Library



COURSE: Hetal Trades (Continued)

OCCUPATION: Electro-Mechanical Repairman (Appliance Repairman)

NO.

LEARNING GOALS -	LEARNING ACTIVITIES	TOOLS, EQUIPMENT, SUPPLIES	NEW TERMINOLOGY MATII	TEXT, WORKBOOKS OTHER SUPPLIES
į ·				How to Produce Electric Currents with Magnets 11 Minutes BOCES Library
•			•	FIELD TRIPS Westinghouse Corp. Yonkers, N.Y.
				Teacher Made Materials
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ERIC			, t	

Metal Trade:

Small Engine Repairman I. JOB TITLE:

II. JOB DUTIES:

Raises vehicle with hydraulic jacks and removes wheel and brake drum

Replaces defective brake shoes or disks

May rivet new linings to shoes

Repairs or replaces defective wheel cylinders and/or master cylinder

Checks and bleeds brakes at all four wheels

III. WORKING CONDITIONS:

Work week is approximately 40-48 hours

Usually works indoors

Must be able to bend, crawl, stoop, and lift heavy objects

IV. JOB REQUIREMENTS:

Have mechanical aptitude and ability Be in good physical health-

Have a driver's license

V. JOB CONDITIONS:

Determined by field trips, guest speakers, etc.

VI. BASIC SKILLS AND KNOWLEDGE:

Must understand the hydraulic principles involved in the operation of brakes

Must have mechanical skill and aptitude

Will soon have to understand the operation of anti-skid brakes

VIL JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Must be able to read manuals due to the various types of brake systems now available

Math: Adding repair bills .

Computing sales tax

Communicate with supervisor and may have to communicate with customer

Written: Minimal, may have to write repair bills

ADDITIONAL JOB INFORMATION:

- 1) Disadvantages: Dirty, oily work-in a noisy environment.
- 2) Advantages: Steady indoor work

Opportunity for advancment

3) Training opportunities: On the job-Vocational Schools

LEARNING GOALS

LEARNING ACTIVITIES

TOOLS, EQUIPMENT, SUPPLIES

NEW TERMINOLOGY MATH

TEXT WORKBOOKS

... To identify types of machinery and hazards involved

... To understand the working and procedures of the shop (orientation)

... To operate a safe shop

... To understand the principle of operation of the internal combustion engine (small engine repairman)

... To identify major parts of angine and be familiar with their function

... To understand the principles of the operation of the fuel and exhaust system

... To identify major parts of system and be familiar with their functions

... Become familiar with the principles of the operation of the automobile ignition and electrical system

... Identify major parts of system and be familiar with their functions

... Understand the operation and function of the crankcase lubrication system

... To know the operation of the cooling system of car engines and small engines

... To know the parts and their functions in the cooling of engines

... To understand how power is transmitted from the engine to transmission via clutch or automatic transmission through drive shaft, differential the exlest and to the wheels

To understand the workings to be complete braking system

... Planning-personal shop safety plan

... Operation-function of shop machinery, tools and equipment ... Analysis of job hazards

Prevention-Precautionary measures and preventative procedures

... Demonstration of fire extinguisher

a) Invite Fire Dept. to demonstrate importance

... Demonstrate engine operation with model engine (Small engine)

... Disassemble single cylinder engine and discuss major parts and their function

... Demonstrate and discuss operating engine

... Disassemble auto engine and discuss major parts and their functions

... Identify major parts of engine on teacher made ditto

... Read and Discuss chapter on "The Engine" in text Understanding the Auto

... Demonstrate manually the operation of fuel pump

... Disassemble fuel pump and carburetor and discuss major parts, and their function

... Demonstrate and discuss fuel system in operation

... Identify major parts of fuel pump

... Read and discuss chapter
"Fuel and Exhaust System"
in Understanding the Auto

... Discuss primary and secondary systems

... Discuss major parts of both

Goggles
a) Gas welding

b) Arc-welding
c) Grinding

d) Chiseling

Guards Coveralls Shopwoat

Vents and Exhaust system
Flammable liquid storage
Machinery and hand tools that

will be used

Demonstration model engine

Small engines

Mechanics hand tools
Compression tester

Auto engines (demonstration)

Gear pullers
Arbor press

3/8" socket set 1/2" socket set

Open and box end wrenches

Carburetor
Fuel pump
Gas filter
Gas lines

Manifold (exhaust)

Muffler
Pipe expander
Clamps
Air chisel

Hacksaw Tubing cutter Flaming tool

Starter Battery

Generator . . . Alternater

Voltage regulator Coll

Distributor Spark plugs VOCABULARY

Injury
Statistic
Compensation
Inspection
Passention

Prevention Regulation Equipment

Hazard

Machinery
Precaution

Safety Apron

Dangerous Flammable

· Codes

Two cycle

Four cycle Strokes

intake compression

power exhaust

Camshaft Crankshaft Piston

Piston rings Cylinder

Wrist pins Journal

- Bearings Rocker Arms

Overhead valve Valve seats

Connecting rods
Compression test

Flywheel Gasoline Carburetor

Atomize Fuel pump

Vacuum Manifold Basic Auto Repair-1
Basic Body Repair-1
Booklet of Standard Safety
Appeals Board Small Gasoline
Engines
Understanding the Auto
Practical Problems in Mathematics; Auto Trades
Automotive Chassis and Body
Automotive Encyclopedia
Car Service
Service Check

CASSETTE TAPES
Your Future as an Auto Mechania

FIELD TRIPS
Dino's Transmission Service
Putnam Valley and Croton Falls
General Motors School for
Mechanics
Tarrytown, New York
Auto Show, New York Colesium
Teacher Made Materials Carburetor, fuel pump, etc.

TRANSPARENCIES
As prepared by teacher

Charts
Oil filter
Anti-freeze
Car Service Check
Basic Automotive
Ignition System
Workmens Compensation Laws

FILMSTRIPS
The Rotary Engine, 1 Dana
Corp.



OCCUPATION ... Small Engine Repairman

NO. 6 (Continued)

LEARNING GOALS

of the auto

- ... To know how to inspect and determine when brakes need replacing . .
- ... To be able to replace the. brake shoe of an auto
- ... To understand differences between Drum Brakes and Disc
- ... To understand power brakes

LEARNING ACTIVITIES systems and the function of these parts

- ... Disassemble and discuss functions of major parts of starter, gonerator, alternator, distributer ... Discuss electrical system as it pertains to accessories (lights, radio, air-conditioning, etc.)
- ... Trace the oil circulatory system in an engine-types of lubricants, method of venting crankcases and cooling oil
- ... To trace the power from the engine to thw wheels with engine model
- ... Remove and replace universal joints of drive shaft
- ... Trace the hydraulic system from the pedal to the tires ... To adjust drumbrake
- ... To replace drum brake shoes
- ... To replace disc brake pads

TOOLS, EQUIPMENT <u>SUPPLIES</u>

Solenoid Oil pumps from small engines and from auto engine Crankcase and dinstick PCV Valves Filters Filter wrenches Water pumps from auto engine

Thermostate Hydrometer Drive shaft with universal joints Brake fluid

Brake spoon Brake spring tool Diagonal pliers Tubing wrenches

Single and double master cylin-Wheel cylinder

NEW TERMINOLOGY MATH

(intake and exhaust) Flexible diaphragm Pressure

Proportions Float

Muffler Tailpipe

Solenoid Volts Amis

Bendix drive

Field coils Armature

Magnetism Filter screen .

Dipstick Filters

Pressure gauge Oil lines

Friction

Pressure relief valve Crankcase ventilation

P.C.V.

Thermostat

Radiator Hoseclamp

Clamp pliers Universal joint Flywheel

Clutch Throwout bearing Thrust bearing Drivo shaft

Differential Torque converter Bleed brakes

Brake spoon Dual Cylinders -Brake shoes Disc pads Calipers

Hydraulic Booster

Ratios-gear to gear

Torque-foot and pounds Liquid measurej Decimals

TEXT, WORKBOOKS

FILM LOOPS

Automobile Mechanic. Encyclopédia Britannica

FILMS The Gas Turbine Engine BOCES Library

General Motors Detroit, Mich. Victory Circles, Dana Corp.

Performance Starts in The Garage, Dana Corp.

Automotive Service Opportunities, Ford Motor Co.

Auto Mechanic: It's For You, Modern Talking Pictures

Each Day at Dawn, Modern Talking Pictures

No Time to Waste, Modern Talking Pictures

Series of Films on Racing and Auto Mechanics, Goodyear Tire and Rubber Co., Public Relations Film Library, Akron,

Ohio 44316

Trade: Metal

L. JOB.TITLE: Welder, Electric and Gas.

IL JOB DUTIES:

Fabricate on the job such as buildings, tanks, bridges, fire escapes and other metal devices
Fabricate in a shop devices that are installed somewhere else
The worker must fuse the metal with a high degree of correctness since safety is always involved
Must cut and salvage steel parts by the gas and electric method
Must engage in a wide variety of maintenance work, repairs, etc.

III. WORKING CONDITIONS:

Works in production welding side in the presence of heavy duty machinery where fumes and vapors are present (heavy, oily).

Works outside on high platforms and scaffolds

Could do light welding and brazing on a production line in a clean and neat factory

IV. JOB REQUIREMENTS:

Background in welding
Machine types and uses
Knowledge of metals and how the welding process takes place
A keen eye and a steady, skillful hand to perform the welding process
To have a knowledge of lifting and supporting heavy metal devices

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VL BASIC SKILLS AND KNOWLEDGE:

Must understand metals and how heat is conducted in metal
Must understand the basic principles of welding machines, AC, DC, exacetylene, heliarc
and electric spot welding '
Must be able to do brazing, silver soldering, vertical, horizontal and other special welding such
as stellite coating
Must understand heat treatment of steel

VII. JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: To be able to citart specifications and drawings

Instruction manuals

Math: Basic math

Verbal: Must be familiar with nomenclature of trade

Written: Must be able to complete job progress reports and time sheets

ADDITIONAL JOB INFORMATION:

- Disadvantages: The physical strain of eye concentration and muscle movement is present Exposure to fumes and high heat
- 2) Advantages: Work is common to all industries and mobility is great Pay is good and future development makes it an ever expanding industry Great savings made in manufacture and repair make jobs plentiful The skill range is wide for training in a few weeks to several years
- 3) Training opportunities:

NO. 7

Arc

OCCUPATION: Welder (Electric and Gas)

LEARNING GOALS

LEARNING ACTIVITIES

TOOLS, EQUIPMENT, SUPPLIES .

NEW TERMINOLOGY MATH

TEXT, WORKBOOKS OTHER SUPPLIES

To understand reason and procedures for good safety in the welding shop

a) Protective clothing

b) Goggles and safety glasses . *

c) Tank safety

d) Electrical welding safety

e) Eye safety

Technical safety standards To understand metal behavior such as coefficient of heat, melting temperature and tensile strength

... To understand need for welders test requirements for production

... To become an entry level welder for steel sheet, plate, bar and pipe

... Practice safety procedures < ... To design and make boy interest projects that require welded joints

... To repair metal parts of bicycles, motorbikes, engines

... Math: Emphasize work with problems to develop cognitime and deductive thinking

... Science: Principles of physics and heat treatments of metals

... English: Comprehension of new terminology, its spelling,

... Occupational: Brazer, solderer, welder

Oxyacetylene weld equipment All size tips and cutting torch Special wrenches Cart for tanks Electric welder 20 to 300 amps AC with all accessories Weld, helmets for Electric 5-

and goggles for gas weld-Wide assortment of welding rods-coated steel aluminum, brass, etc.

Special Marquette welders rods

VOCABULARY · Alternating current 4

Báse metal Brittle, Brazing Butt joint

Carburizing flame Closed circuit

Coated electrode Corner joint

Direct current Edge joint

Electrode Filler rod

Flux Fusion

fusion weld

Ignite

Inert Lap joint-

Needle valve

Neutral flaine Nitrides

Oxides

Oxidizing flan Oxyacetylene weld

Polarity Slag, Soldering

Tack Tee joint

Weld metal

MATH

Concentrated work in Practical Problems in Math to simulate actual situations and independent approaches to solutions

Metalwork Technology and Practices, Ludwig Metalwork Technology and Practices, Workbook, Ludwig Technical Metals, Johnson Technical Metals Workbook, Johnson Basic Mathematics Simplified, Delmar Practical Problems in Mathematics Occupational Outlook Handbook Occupational Dictionary

· FILMS Almost Everyone Does 14 Minutes BOCES Library

Story of Arc Welding 24 Minutes · Free Film

The Oxyacetylene Flame. The Master of Metals Department of the Interior. Bureau of Mines Oxyacetylene Cutting, Yorktown Welding Co.

TRANSPARENCIES Sets for Oxyacetylene and Arc Welding Sets for Precedure and Technique for Positioning Parts and Testing for Strength of Welds



COURSE: Mend Trades

OCCUPATION: Welder (Electric and Gas) Continued		NO. 7		
LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT, SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER SUPPLIES
	•			FILM LOOP Oxyacetylene Welder and Cutter, Encycolpedia Britan- nica Educational Corp.
	·	. '		FIELD TRIPS Conny Welding Products White Plains, N.Y.
		,		Teacher Made Materials
	-	•		
			,	•
•				
•	•			
•				44
ERIC THOUSEN TRUE	43			
Full Text Provided by ERIC	ì		1	

Trade: Metal

I. JOB.TITLE: Draftsman

II. JOB DUTIES:

Translate the ideas, rough sketches, specifications, and calculations of engineers, architects and designers into working plans which are used in making a product

May calculate the strength, reliability and cost of materials in their drawings and specifications

Describe exactly what materials that workers are to use on a particular job

III. WORKING CONDITIONS:

Usually works in a well-lighted and air conditioned room where he has large flat tables and many drawing instruments

Conditions are comfortable and pleasant

IV. JOB REQUIREMENTS:

Develop a sense of perfection and accuracy

Specifications and drawings must be precise and exact

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VI. BASIC SKILLS AND KNOWLEDGE:

Must have a definite skill in the graphic presentation area

Must have completed at least 2 years practice in formal Mechanical Drawing instruction or be in a drawing apprentice program

Must have knowledge of orthographic projection, isometric drawing, machine drawing, architectural presentation and some topographical knowledge

VIL JOB PRACTICE:

Shop and laboratory experience

Some site work

VIII. ACADEMIC DEMANDS:

Reading: Must be at least 10th grade level

Be able to improve such skill in specific areas where special language and conventions are

used

Math: Must have a good knowledge of basic math for measurement, angles, volumes, proportions,

etc.

Verbal: To be able to communicate with fellow workers in field

Written: Must be able to use the language of drawing; symbols, arrows, abbreviations, etc.

ADDITIONAL JOB INFORMATION:

- l) Disadvantages: Electronics eliminating many jobs-
- 2) Advantages:
- 3) Training opportunities:

COURSE: Metal Trades

OCCUPATION: Draftsman (Mechanical)

LEARNING GOALS

LEARNING ACTIVITIES

TOOLS, EQUIPMENT, SUPPLIES

NEW TERMINOLOGY MATII

TEXT, WORKBOOKS OTHER MATERIALS

... To know the basic principles of graphic presentation Orthographic -3 Dimension views Isometric and Dimensioning

... To know the use of draft-ing tools

... To have the ability to sketch and produce a machine drawing with instructions as to how to follow for use

... To trace, reproduce and understand blueprints

... To know the symbolic language of drawing and blueprints; both abbreviations and lines ... Draw a simple machine drawing of a project and reproduce for use in the shop

... Produce a small machine or metal working project by use of the drawing and to follow—dimensions—and shape as specified

... Sketch ideas where no drawing exists and to produce a project from the sketch

... Copy professional blueprints to develop correct technique, accuracy and nextness

... Identify drafting accessories from pictorial worksheets and understand their uses

Drawing bench with drawing board on top
One T-square
Trianges 60, 30, 40

I set drawing instruments

a) Bow compass

b) Dividers

c) Trammel points

French curves
6 side Scale Ruler
Tape
Paper
Scissors
Pencils

VOCABULARY Diameter

Diameter
Diagonal
Design
Cylinder
Circle
Semicircle
Screw thread

NO. 8

`Tracing Tangent line

Area Aro

Trammel Divider

Isometria Orthographia Dimension Traingle

Compass Blueprint

Scale Drafting

T-Square Axis

Ellipse Working drawing

Radius Degree Visible line Hidden line

Extension line
Dimension line
Horizontal

Vertical Circumference Translucent

Sketching Center

Center line
Arrow head

View Symbol Metalwork Technology and Practice. Ludwig Technical Metals, Johnson Practical Problems in Mathematics; Machine Trades Shop Made Easy. Frank

FILMS

The Game 28 minutes BOCES Library

Cattaneo

Language of Drawing 10 Minutes BOCES Library

Shape Description Parts I and II 19 Minutes BOCES Library

Size Description 13 Minutes BOCES Library Auxiliary Views, Parts I & II BOCES Library

TRANSPARENCIES
Othographic Views of objects
Geometric Shapes, Angles
and Lines

FIELD TRIPS
General Motors

Assembly Plant Tarrytown, N.Y.

Teacher Made Materials

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COURSE: M

OCCUPATION: <u>Draftsman (Mechanical)</u> (Continued)

TOOLS, EQUIPMENT,

NEW TERMINOLOGY

NO. 8

TEXT, WORKBOOKS ERIALS

LEARNING GOALS	LEARNIŅG ACTIVITIES	TOOLS, EQUIPMENT, SUPPLIES	NEW TERMINOLOGY / MATH	TEXT, WORKBO OTHER MATER
•			Bending line Cutting line Break line Chord Rectangle Pyramid Octagon	
^ .			Hexagon Cross section Intersecting lines Perpendicular Parallel Diagonal Angles-acute, obtuse, right	
		·	Drafting symbols: ' - feet '' - unches ' o - degrees + - plus/more minus/less g - centerline D or dia diameter	
•			R or rad Radius RH - right hand LH - left hand Thds threads NC - National Course NF - National Fine - finish Csk - Counter sink	,
. `			CS - Carbon Steel HRS - hot rolled steel P - pitch CRS - cold rolled steel HSS - High speed steel MATH	
	48		Addition, subtraction and multiplication of fractions and decimals	49

Trade: Metal .

I. JOB.TITLE: Ironworker

II. JOB DUTIES:

Erect, assemble or install fabricated metal products primarily in industial, commercial and large resides buildings

Rig heavy construction machinery for moving
 Carryout alteration operations such as installing steel stairs, etc.

III. WORKING CONDITIONS:

Nature of the work is such that much is done under hazardous conditions Great weights, heights, large moving machinery, high temperatures and much adverse weather conditions

IV. JOB REQUIREMENTS:

Excellent physical ability and strength

Be able to withstand the most difficult conditions of weather, heat and air pollution

V. JOB CONDITIONS:

Determined by field trips, guest speakers, etc.

VI. BASIC SKILL AND KNOWLEDGE:

To know and understand how to form and shape ferrous metals and all alloys
To know basic welding (electric and gas)

VIL JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Not highly essential to this job

Reading thermometers and temperatures

Math: Basic math and measurement and some geometry

Verbal: No great demand for verbal skills
Written: Ability to write and understand

Fahrenheit and Centigrade temperature

ADDITIONAL JOB INFORMATION:

- 1) Disadvantages: Working in all kinds of weather
- 2) Advantages: Outlook for employment is good
- 3) Training opportunities: Apprenticeship of 3 years

OCCUPATION: Ironworker

LEARNING GOALS

... To understand the safety procedures to be practiced by the iron worker in industry

- a) hard hat
- b) foot protection
- c) Lifting procedure
- d) etc.

... To understand basic ferric metallurgy for detection and proper use of steel

- ... To be able to select stock, shape it and assemble for production work
- ... To be able to install fabricated steel products
- ... To understand how to repair and replace structural steel parts
- ... To understand temperature effects from heat treatment
- ... To understand temperature reading

LEARNING ACTIVITIES

... Use good safety procedures
... Produce projects (boy
interest) such as mini bikes,
wagons, tables, etc. where
all the skills can be learned;
such as cutting, drilling, welding, bending, brazing, shaping
and heat treating

- ... To operate all machines to accomplish the above
 - a) band saws
 - b) power hack saw
 - c) drill press
 - d) are and oxyacetylene welding equipment
 - e) benders
 - f) furnaces
 - 1) forging
 - 2) blast

... Use of worksheets for understanding of temperature changes, boiling point, freezing point, melting point and thermometers

... Write and study notes on types of steel and their percentage of carbon

TOOLS, EQUIPMENT, SUPPLES

Electric welder

Oxyacetylene weld equipment
Gas heating furnace for heat treatment
Anvil and hammer
Metal lathes
Drill press
DiAcro punch with all dies
Power hack saw
Power band saw with metal cutting blades
Assorted grinders
All hand metal-working tools as indicated in machinist area.

NEW TERMINOLOGY MATH

Pia iron Ingot stripper Ladle Iron pourer Malter Furnace tender. Skipman or stockhouse man Molten Blast furnace Ore Coke Slag Limestone Blowers Apprentice Metallurgy Iron Carbon Cupola Silicon ' Sulfur Cast iron Temperina Annealing **Ouenchina** Quenching solution Hardeninå Case hardening Heat treatment Hardening temperature Time-temperature cycle Full annealing Process annealing Magnetic point Flame Hardening Induction hardening Carburizina High càrbon steel Medium carbon steel

Low carbon steel

High-speed steel

TEXT, WORKBOOKS OTHER MATERIALS

Metalwork Technology and Practice, Ludwig
Technical Metals, Johnson Basic Mathematics
Simplified, Delmar Metal-work Technology and Practice Workbook, Ludwig Elementary Metallurgy
Arithmetic That We Need, Mooney (F.E. Richards Series) Chapter on Temperature

FILMS
How Steel is Made
BOCES Library
The Drama of Metal Forming
BOCES Library
Cast Tron; Biography of a
Metal, Department of the
Interior, Bureau of Mines
The Lead Matrix Department
of the Interior, Bureau of
Mines

TRANSPARENCIES
Process of Making Iron and
Steel

FIELD TRIPS Marks Iron Works

Teacher Made Material

51

NO. 9

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT, SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS	
·			Hot-rolled steel Cold rolled steel Alloy steel a) chromium b) tungsten . A		
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~				,	
· ·				,	
	• • • • • • • • • • • • • • • • • • • •	-		· ·	
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	53	,	*	54	
ERIC PRINTED PRINTED		•			

AUTO TRADES

OCCUPATIONAL READINESS CENTER

COURSE:

AUTO TRADES -

UNITS:

First Quarter

Service Station Attendent Lubrication Specialist Pneumatic Tire Specialist

Auto Mechanic

Auto Body Repairman (Oxyacetalene Welder)

Second Quarter

Same as First Quarter

Third Quarter

Same as First Quarter

Fourth Quarter

Same as First Quarter

Trade: Auto

L. JOB TITLE: Service Station Attendant

IL JOB DUTIES:

Supply cars with gasoline, oil, water, and air
Change oil, lubricate vehicles, sell tires, batteries, light bulbs and other parts
Install windshield wipers, rear view mirrors, and spark plugs
Change and repair tires
May also wash automobiles
Repair flat tires, rotate tires, change snow tires
Pump gas
Clean windshields
Check water levels in batteries and radiators
Check oil in engines and automatic transmissions
Check tires for correct air pressure
Handle cash payments, prepare charge slips for credit card customers
Clean service station and rest rooms
Sets up displays and takes inventory
Provides emergency road service

III. WORKING CONDITIONS:

Works out of doors in all kinds of weather
Must move rapidly and does lifting and stooping
Spends much time on his feet
Frequently gets dirty
Possible injuries from sharp edges and burns from hot engines
Shift work with weekend duty
Noisy surroundings with gasoline and oil fumes present

IV. JOB REQUIREMENTS:

16 WITH WORK PERMIT

Have pleasant personality and poise and tact in dealing with customers

Have mechanical aptitude and ability

Ability to speak well and clearly

Be in good physical health

Have driver's license

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VI. BASIC SKILLS AND KNOWLEDGE:

Some knowledge of tools, equipment and mechanics is helpful Sales knowledge is an important factor
Knowledge of general custodial maintenance duties required Move arms, hands and fingers easily to manipulate tools and parts Use basic mathematics
Learn and apply procedures relating to sales and service work Work to prescribed standards

VIL JOB PRACTICE:

Shop and lab experience

57

VIII. ACADEMIC DEMANDS:

Reading: Manuals, maps, credit cards, gas pumps, lubricant and oil charts



ACADEMIC DEMANDS (continued).

Math: Basic mathematical operations, compute tax, add up bills, calculate change, become familia

with liquid and linear measurement

Verbal: Must be able to communicate with a wide range of customers

Written: Must be able to fill out repair bills and charge forms

ADDITIONAL JOB INFORMATION:

Disadvantages: Long shifts, working holidays, evenings, etc.
 Noisy dirty working conditions with gas fumes, carbon monoxide fumes always present
 Poor fringe benefits
 May have to work weekends, holidays and rotating shifts

Work is dirty, oily and greasy
Work outdoors in all kinds of weather

Advantages: Steady work
 Many advancement opportunities
 Opportunity to meet and help people

Training opportunities: On the job Vocational Trade Schools
 Oil company training programs

OCCUPATION: Service Station Attendant

LEARNING GOALS

... Make students aware of shop safety hazards and safety procedures

- ... Identify the equipment used in a service station operation
- ... Understand the working and procedures of the shop ... Learn proper use of Lubrication Guide Charts
- ... Learn billing and sales slip procedures and use of credit card machine
- ... Learn how to lubricate auto and change oil
- ... Understand how to perfrom pump island services ... To understand Auto's cooling system
- ... Learn how to remove and replace Thermostat and radiator hoses
- ... Learn why and how to winterize auto cooling system
- ... Identify and understand use of hand tools
- ... To understnad battery operation
- ... Know wrench size progression 3/8" to 1"

LEARNING ACTIVITIES

- ... Demonstrate use of shop machinery, tools and equipment
- ... Read and review auto safety procedures and precautions
- ... Obtain safety vocabulary from teacher made hand outs
- ... Demonstrate use of Lube, Guide Charts
- ... Use Lube Guide Charts to solve problems in shop and classroom
- ... Demonstrate and have students change oil filter
- ... Check oil, water, battery transmission, brake and power steering fluid
- ... Clean windshields and headlights
- ... Replace wiper blades and arm assemblies
- ... Check fan belts
- ... Display, discuss and use hand tools
- ... Discuss wrench sizes and types thoroughly
- ... Group discussion of cooling system
- ... Practice using charts-Antifreeze concentrations
- ... Check cars for Anti-freeze levels and advise on adding anti-freeze when needed ... Demonstrate cooling system operations-radiators, thermostats and hoses
- ... Replacing gaskets on thermostat housing
- ... Trace the colling system of engines, both water cooled and air cooled
- ... Use of hydrometer with car radiator

TOOLS, EQUIPMENT, SUPPLIES

Lift Grinder Tire machine Clean-o-matic Gogales Speedy dry Fire extinguisher Floor lacks Steam cleaner Impact wrench Hand tools Oil filter Oil filter wrench Air operated oun Hand oun Adapter OH . Water Transmission fluid Wiper cloths Air Lift Hydraulic iacks Batteries Electrolyte Hydrometer Thermometer

Thermostats

Battery hydrometer

Radiator water pump

NEW TERMINOLOGY MATH

VOCABULARY

Lift Drain container Extinguisher Oil filter wrench Drain plug Lubrication Grease fitting Grease gun Adapter SAE Anti-freeze Boiling point Open end wrench Box wrench Ratchet handle Breaker handle Socket Allen wrench Specific gravity Temperature Decrees Ethyleneglycol Hydrometer Thermostat

MATH Basic math processes Liquid measure Fractions Money change sheets Service station transactions sales slips

TEXT, WORKBOOKS OTHER MATERIALS

Safety "Car-Chek" Guide
Safety Sheet hand outs
Service Station Management
Automotive Service
Tool Cards
Car Service
Service Station Record-Keeping, Noble, Fritz
Know Your Motor Oil

How to Sell Motor Oil

Battery Service Manual

It's Easy to be an Expert-Battery Man, That Is

Understanding the Automobile ...

Five Steps to Friendly Service, Mobil Oil Co.

FILMS How Man Learned to Count Introduction to Fractions Basic Shop Safety Split Second to Disaster It Didn't Have to Happen Don't Push Your Luck. N.Y. State Board of Health Thermometers and How They Work Car is A Woman The Story of the Modern Storage Battery, Bureau of Interior Story of Gasoline, Bureau of Interior Service Station Refinery Processes Wild Cat It Never Rains Oil It Might Have Happened -

FILM STRIPS
Basio Ship Safety 6

OCCUPATION: Service Station Attendant (Continued)

NQ 1

Storage Ballery

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT, SUPPLIES	. NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
	Fill out sales slips Fill out credit card forms			The Service Station Attendant, BOCES Library
	Discussion and explana- tion of automotive (storage) battery Charging a battery ??. Practice temperature cor- recting and hydrometer read-			FILM LOOPS Safety, BOCES Gasoline Service Station Attendant, Encycolpedia Britannica
	ing Check cars for percentage of charge in battery Demonstrate use of battery charger—and—voltage—tester	•	•	CASSETTE TAPES Your Career as a Service Station Attendant, BOCES
				TRANSPARENCIES The Starting System, 3M co.
				Credit Card and Sales Slips, Teacher Made
			•	CHARTS Specific Gravity of Electrolyte Anti-freeze
				TEACHER MADE MATER— IALS Computing Anti-freeze con- centrations
			,	Using Auto Manuals to determine cooling system capacities. Auto Trades General Safety Precautions Battery Problems to Correct Specific Gravity Readings for Temperature
•	13			. FIELD TRIPS Shell Station, Whitehall Corners, New York
	61	,		Curry Chevrolet, Rt. 202, Yorktown
ERIC	**			Credit Card Machine Cutaway

Trade: Auto .

L JOB TITLE: Lubrication Specialist.

II. JOB DUTIES:

Inject grease into springs, universal joints, steering knuckles, suspension elements
Check fluid levels of steering gear, engine, transmission, differential, radiator, power steering
Drains and replaces fluids in all the above
Replaces oil, air, and PCV filters
Sprays leaf springs with lubricant
Checks and refills battery cells.

III. WORKING CONDITIONS:

May work indoors or outdoors in all weather Must-work rapidly and does considerable lifting and stooping Spends time on his feet

IV. JOB REQUIREMENTS:

Have some mechanical aptitude and ability Be able to follow lubrication charts

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VI. BASIC SKILLS AND KNOWLEDGE:

Some knowledge of tools, equipment and mechanics is helpful Knowledge of general custodial duties required

VIL JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Lubrication charts and manuals

Filter replacement charts

Math: Liquid measurement, addition, subtraction, linear measurement

Verbal: Must be able to communicate with supervisor

Written: Must be able to fill out repair bills and/or maintenance records

ADDITIONAL JOB INFORMATION:

- l) Disadvantages: Dirty greasy work in a carbon monoxide and gas fume environment
- 2) Advantages: Steady work
- 3) Training opportunities: On the job Vocational Schools

. NO. 2

	LEARNING GOALS Familiarize students with how and why lubricants are used on springs, steering, transmission, differential, and wheel bearings To know the location of lift points To have students become aware of the different types of lubricants and where they are used (oil and grease) To become familiar with lubrication points To become aware of types of oil filters and pollution control devices such as P.C.V. filters	LEARNING ACTIVITIES Grease or oil various types of automobiles a) filters-air, oil, gas b) fittings c) greases d) Oils Remove and install oil filters	TOOLS, EQUIPMENT, SUPPLIES Greasing equipment Oil Pump Oil drain	NEW TERMINOLOGY MATH VOCABULARY Lub Viscosity 10-20-30- Lithium Graphite Friction SAE Positive Crankcase Ventilation	TEXT, WORKBOOKS OTHER MATERIALS Eacts About Purolator Oil/ Gas Air Filters FILMS Texaco Inc. N.Y., N.Y. Shell Oil Co. Oil Frontiers of Friction Project Mohole-Phase 1 Case of the Slippery Oil, Dana Corp. FIELD TRIPS Local Service Station Curry Chevrol - Route 202, Yorktown
		*****			Model-Cutaway of oil filter
• •	,				CE
E	RIC	64		•	65

Trade: Auto

L. JOB TITLE: Pneumatic Tire Specialist

IL. JOB DUTIES:

Remove and replace wheels on all sizes and types of vehicles
Mount and dismount tires on rims
Repair tires
Sells tires and tubes
Collects cash
Writes credit slips
Uses charts

III. WORKING CONDITIONS:

Outside in all weather
Subject to injuries from tools
Grease, oil, and dirty work.
Most of working hours are spent standing

IV. JOB REQUIREMENTS:

ló years old

Some mechanical ability .

Drivers license

Have ability to lift

V. JOB CONDITIONS:

Determined by field trips, guest speakers, etc.

VI: BASIC SKILLS AND KNOWLEDGE: Manipulate tools

VII. JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Must be able to read work orders and locate correct tire sizes in stockroom

Math: May have to add up bills, compute federal, state and local taxes Verbal: Must be able to communicate with supervisor and or customer

Written: May have to write up bills

ADDITIONAL JOB INFORMATION:

Disadvanțages: Weekend and holiday work
 Dirty sometimes greasy work
 Outdoors in bad weather
 Subject to injuries from tools

- 2) Advantages: Steady work if employed by a high volume distributor
- 3) Training opportunities: On the job Vocational Schools

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT, SUPPLIES	NEW TERMINOLOGY MATII	TEXT, WORKBOOKS OTHER MATERIALS
To learn how to remove wheels from cars, learn lug sizes and left and right tread Learn how to remove tires from wheels by use of tire machine Familiarize student with the repairing of tires and tubes Make students aware of different types of tread design, needs and cords Familiarize student with how to interpret tire wear	Use tire machine Valve stem replacement Check air pressure in tires Demonstrate that tire wear points can indicate nature; of problem Repair tires and tubes and tubless tires Show students different tree tires and rims Demonstrate and have students use manufactureres' tire chart to find such things as load range, pressure, re- commended tires for specific purposes, ply rating, etc Show students how to determine different size tires and rims	Tire machine Lug wrench Valve core tool Pressure gauge Tubless tire repair kit Lift Impact wrench Tire chart	VOCABULARY Cauge Tread Depth Radial Cord Studded snow Polyester cord Polyglass Steel belted Lug wrench Ply	Goodyear and Firestone Tire Booklets Goodyear Auto Tires FILMS Firestone Tire and Rubber Co. Akron, Ohio Goodyear Tire, Akron, Ohio Test Drive For Safety Rubber from Oil, Bureau of Interior Rubber by Design, Shell Oil Co. FILMSTRIPS & TAPES Fixing A Flat Tire FIELD TRIPS Tire Dealer Baldwin Plage
	67.		•	c Q
	.			68

Trade: Auto .

I. JOB TITLE: Auto Mechanic (Gasoline Engine Repairman including out board engines and lawnmower mechanics)

II. JOB DUTIES:

Service and repair fractional - horsepower gasoline engines

Examine and test engine to locate cause of malfunction

Disassemble engine and inspect and clean parts

Adjust, repair or replace parts

Assemble engine

Clean and adjust spark plugs, carburetor, magneto and other components

Start repaired engine and check performance

Change oil and lubricate moving parts of engine

Prepare shop repair record and customer's bill

III. WORKING CONDITIONS:

Work alone, or around others, in well-lighted and ventilated repair shop or plant
Travel to location of engine breakdown to make repairs under varying climate conditions
Be exposed to oil, grease and dirt from handling tools and materials
Be subject to minor cuts, shocks and strains

IV. JOB REQIUREMENTS:

Read, write and speak English

Be 18 years of age

Have some vocational or trade school education in the repair of gasoline engines

Have a driver's license

Complete employer's on-the-job training of 1 to 2 years

Be able to stand at work for long periods

Have adequate use of arms, legs, hands and fingers

Be able to bend, stoop, kneel, crouch and move around easily

Be able to lift and carry materials weighing up to 50 pounds

Have good vision and hearing (normal or corrected)

Be free of allergies to dust, dirt, oil, and grease

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VI. BASIC SKILLS AND KNOWLEDGE:

Learn and apply scientific principles and technical knowledge easily

Use independent judgement in planning sequence of operations and in selecting proper tools and materials

Visualize arrangement and relationship of stationary and moving parts as represented in diagrams Handle and manipulate tools and equipment skillfully

Understand the operation of 2 cycle, 4 cycle engines

Understand thoroughly the magneto ignition

VII. JOB PRACTICE:

Shop and laboratory practice

VIIL ACADEMIC DEMANDS:

Reeding: Must be able to reed and interpret engine manuals, service bulletins, etc.

Math: Must be able to add up bills, compute labor charges, compute sales tax, make precision

measurements, and be familiar with liquid measure as well as gas/oil mixtures

Verbal: Must be able to communicate with customrers tactfully to determine repair work that must

be done



JOB.TITLE: Auto Mechanic (Gasoline Engine Repairman including out board engines and lawnmower mechanics) (cont.)

ACADEMIC DEMANDS: (continued)

Written: Must be able to write up repair bills, keep a log of work to be done, etc.

May have to take inventory, order parts, etc.

ADDITIONAL JOB INFORMATION:

- 1) Disadvantages: Work tends to be seasonal
- 2) Advantages: Work is usually done indoors
- 3) Job Training: On the job Vocational Schools

Trade: Auto .

L. JOB.TITLE: Auto Mechanic

II. JOB DUTIES:

Performs preventive maintenance tasks

Troubleshoots malfunctioning automobiles

Repairs automobiles

Questions customer about the performance of the vehicle

Tests the operation of motor, transmission, steering gear, and brakes

Plans work, using charts, repair manuals and experience

Removes part of automobile to be repaired, using various hand and power tools

Conducts tests on engine, cooling system, carburetor, electrical system, and other parts using special testing instruments

Overhaul, repair or replace worn or faulty parts

Make necessary adjustments to parts

Test automobile to see that it has been restored to proper working order

Write up work record and costs

Fill out customer's bill

III. WORKING CONDITIONS:

Work both inside and outside under a variety of weather conditions

Work up to 6 days a week which may include nights, weekends and holidays

Work with greasy tools and parts in a noisy environment with the presence of gas and carbon monoxide

fumes

IV. JOB REQUIREMENTS:

Have full use of arms, legs, hands and fingers

Be able to bend, stoop, crouch, kneel and move around easily

Be able to lift and carry materials weighing up to 75 pounds

Have good vision or corrected

Be free of allergies to dirt, dust, oil and grease

Speak, read and write English

Be 18 years of age

Complete 2 to 4 years of vocational education and employer's on-the-job training of one to two years;

or complete an apprenticeship of 3 to 4 years

Have a driver's license

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VI. BASIC SKILLS AND KNOWLEDGE:

Must have a good understanding of the operation of an automobile to facilitate troubleshooting ...

Must have good skill with the use of a wide variety of hand and machine tools as well as being able to make precision measurements

VIL JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

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Reading: Must be able to read service bulletins, lubrication charts, part substitution charts, maintenance

manuals, flat rate manuals, etc.

Math: Must be able to add up repair bills, compute tax, bookkeeping (if self employed), subtract

Verbal: Must be able to communicate well with a wide variety of custimers

Written: Must keep a log of repair work to be done, write up bills, keep records, take inventories



JOB TITLE: Auto Mechanic (continued)

ADDITIONAL JOB INFORMATION:

- Disadvantages: Irregular hours
 Exposure to gas and exhaust fumes
 Work is dirty, greasy and can be hazardous
- 2) Advantages: Opportunity for advancement in the trade or to own a business
- 3) Job Training: On the job Vocational Schools

 Company sponsored training programs oriented to one manufacturer's automobiles

 Armed Forces Training program

NO. 4

LEARNING GOALS

LEARNING ACTIVITIES

TOOLS, EQUIPMENT. SUPPLIES

NEW TERMINOLOGY : MATH

TEXT. WORKBOOKS OTHER MATERIALS

... To identify types of machinery and hazards involved

... To understand the working and procedures of the shop (orientation)

... To operate a safe shop

... To understand the principle of operation of the internal combustion engine (small engine repairman)

... To identify major parts of engine and be familiar with their function .

... To understand the principles of the operation of the fuel and exhaust system

... To identify major parts of system and be familiar with their functions

... Become familiar with the principles of the operation of the automobile ignition and electrical system

... Identify major parts of system and be familiar with their **funcitions**

... Understand the operation and function of the crankcase lubrication system

... To know the operation of the cooling system of car engines and small engines

... To know the parts and their functions in the cooling of engines

... To understand how power is transmitted from the engine to transmission via clutch or automatic transmission through drive shaft, differential the axles and to the wheels

... To understand the workings of the complete braking system

... Planning-personal shop safety nlan

... Operation-function of shop machinery, tools and equipment ... Analysis of lob hazards Prevention-Precautionary

measures and preventative procedures

... Demonstration of fire extinguisher

a) Invite Fire Dept. to demonstrate importance

... Demonstrate engine operation with model engine (Small enqine)

... Disassemble single cylinder engine and discuss major parts and their function

... Demonstrate and discuss operating engine

... Disassemble auto engine and discuss major parts and their functions

... Identify major parts of engine on teacher made ditto

... Read and Discuss chapter on "The Engine" in text Understanding the Auto

... Demonstrate manually the operation of fuel pump

... Disassemble fuel pump and carburetor and discuss major parts and their function

... Demonstrate and discuss fuel system in operation

... Identify major parts of fuel pump

... Read and discuss chapter "Fuel and Exhaust System" in Understanding the Auto

... Discuss primary and secondary systems

... Discuss major parts of both

Gogales a) Gas welding

b) Arc-welding

c) Grinding

d) Chiseling

Guards Coveralls Shopcoat.

Vents and Exhaust system Flammable liquid storage ... Machinery and hand tools that

will be used

Fire

Demonstration model engine

Small engines

Mechanics hand tools Compression tester

Auto engines (demonstration)

Gear pullers.

Arbor press 3/8" socket set

1/2" socket set

Open and box end wrenches

Carburetor Fuel pump

Gas filter

Gas lines

Manifold (exhaust)

Muffler

Pipe expander.

Clamps Air chisel

Hacksaw

Tubing cutter

Flaming tool

Starter

Battery Generator

Alternater

Voltage regulator

Coll

Distributor Spark plugs

VOCABULARY

Hazard Injurv

Statistic

Compensation

. Inspection. Prevention

Regulation

Equipment Machinery

Precaution

Safety

Apron

Dangerous

Flammable

Codes

Two cycle

Four cycle

Strokes

intake

comptession

power

exhaust Camshaft

Crankshaft

Piston

Piston rings

Cylinder

Wrist pins

Journal

Bearings Rocker Arms

Overhead valve

Valve seats

Connecting rods

Compression test Flywheel

Gasoline Carburetor

Atomize

Fuel pump

Vacuum

Manifold

Basic Auto Repair-1 Basic Body Repair-1 Booklet of Standard Safety Appeals Board Small Gasoline Engines Understanding the Auto Practical Problems in Mathematics: Auto Trades Automotive Chassis and Body Automotive Encyclopedia

CASSETTE TAPES Your Future as an Auto Mech-

FIELD TRIPS

Dino's Transmission Service Putnam Valley and Croton Falls General Motors School for

Mechanics

Car Service

Service Check

Tarrytown, New York

Auto Show, New York Colesium

Teacher Made Materials Car-

buretor, fuel pump, etc.

TRANSPARENCIES As prepared by teacher

' Charts Oil filter Anti-freeze

Car Service Check

Basic Automotive **Ignition System**

Workmens Compensation Laws

FILMSTRIPS The Rotary Engine, 1 Dana

Corp.

OCCUPATION Auto Mechanic

LEARNING GOALS

of the auto

... To know how to inspect and determine when brakes need replacina

... To be able to replace the brake shoe of an auto

... To understand differences between Drum Brakes and Disc Brakes

... To understand power brakes

LEARNING ACTIVITIES

systems and the function of these parts

... Disassemble and discuss functions of major parts of starter. generator, alternator, distributer ... Discuss electrical system as it pertains to accessories (lights,

radio, air-conditioning, etc.) ... Trace the oil circulatory system in an engine-types of lubricants, method of venting crankcases and cooling oil

... To trace 'the power from the engine to thw wheels with engine model

... Remove and replace universal joints of drive shaft

... Trace the hydraulic system from the pedal to the tires ... To adjust drumbrake

... To replace drum brake shoes ... To replace disc brake pads TOOLS, EQUIPMENT SUPPLIES

Solenoid Oil pumps from small engines

and from auto engine Crankcase and dipetick

PCV Valves

Filters

Filter wrenches

Water pumps from auto engine

Thermostate

Hydrometer

Drive shaft with universal joints

Brake fluid

Brake spoon

Brake spring tool

Diagonal pliers

Tubing wrenches

Single and double master cylin-

der

Wheel cylinder

NEW TERMINOLOGY MATH.

(intake and exhaust) Flexible diaphragm

Pressure

Proportions Float

Muffler

Tailpipe

Solenoid

Volts

Amps

Bendix drive

Field colls

Armature

Magnetism

Filter screen

Dipstick

Filters

Pressure gauge

Oil lines

Friction

Pressure relief valve

Crankcase ventilation

P.C.V.

Thermostat

Radiator

Hoseclamp

Clamp pliers

Universal joint

Flywhool

Clutch

Throwout bearing

Thrust bearing

Drive shaft

Differential

Torque converter Bleed brakes

Brake spoon

Dual Cylinders

Brake shoes

Disc pads

Calipers

Hydraulic

Booster

MATH Ratios-gear to gear Torque foot and pounds Liquid measure

Decimals

TEXT, WORKBOOKS OTHER MATERIALS

FILM LOOPS Automobile Mechanic. Encyclopedia Britannica

FILMS

The Gas Turbine Engine

BOCES Library

General Motors

Detroit, Mich.

Victory Circles, Dana Corp.

Performance Starts in The Gar-

age, Dana Corp.

Automotive Service Opportuni-

ties. Ford Motor Co.

Auto Mechanic: It's For You,

Modern Talking Pictures

Each Day at Dawn, Modern

Talking Pictures

No Time to Waste, Modern

Talking Pictures

Series of Films on Racing and

Auto Mechanics, Goodyear Tire

and Rubber Co., Public Re-

lations Film Library, Akron,

Ohio 44316

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Trade: Auto

L. JOB TITLE: Auto Body Repairman

II. JOB DUTIES:

Repair and refinish damaged bodies and body parts of automobiles and light trucks Examine vehicle to determine type and extent of damage to be repaired Remove upholstery, accessories, equipment and trim Remove and replace damaged fenders, panels and grills Repair breaks in body metal Remove dents with hammer and steel blocks Fill in dents and fillable holes Smooth repaired and filled-in areas with files Refinish repaired surfaces by painting Spray final coat of paint May estimate cost of repairs

III. WORKING CONDITIONS:

Work with and around other workers Work both inside and outside Work up to 6 days a week Work in dirty, dusty and noisy surroundings filled with fumes from welding, solvents and paints Work must be done in cramped positions

IV. JOB REQUIREMENTS:

Be at least 18 years of age Speak, read and write English Complete 2-4 years of vocation education in mechanical work Have a driver's license Be able to drive both a manual and automatic shift vehicle Be willing to purchase your own tools Must have good vision Mechanical aptitude

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VL BASIC SKILLS AND KNOWLEDGE:

All phases of metalworking Use fingers and hands rapidly and skillfully Manipulate small and large tools and equipment Distinguish colors for color-matching and painting

VIL JOB PRACTICE:

Shop and Laboratory experiences

VIII. ACADEMIC DEMANDS:

Math:

Reading: May have to read manuals for parts and/or job cost estimates as well as paint color selection and mixing

May have to compute labor costs

Add repair bills, compute tax and make change

Must be able to communicate with customers

Written: May have to write up work orders, keep a log of pending jobs, and fill out repair bills and

estimates



Auto Body Repairman (Continued)

ADDITIONAL JOB INFORMATION:

- 1) Disadvantages: Work is dirty, dusty and noisy
 Possibility of strains from heavy lifting, cuts and burns
 Few promotional opportunities
- 2) Advantages: Work is usually done indoors
 Opportunity to become self employed
- 3) Job Training: On the job Vocational Schools Industrial Training Programs

LEARNING GOALS

OCCUPATION: Auto Body Repairman

NO. 5

TOOLS, EQUIPMENT SUPPLIES

NEW TERMINOLOGY MATH

TEXT. WORKBOOKS OTIIER MATERIALS

Vocational Division Curriculum

	Τo	ш	ider	tan	d ha	zard	s in
volv	eď	in	LLSO	of	high	air	pres-
sure	(sa	ıfet	v)				

To understand the skills necessary to become an auto body repairman

... To identify and classify auto body tools and equip-

... To know how to do minor body repairs

... To identify and know how to ise cleaners, sandpapers, thinners, reducers, primers, paints, compound

... To know operation and identify the parts of the complete steering mechanism of the auto

... To know frame and suspension parts of system

LEARNING ACTIVITIES ... Mix plastic body filler

... Shape and sand body filler

... Mix primers

... Sand primers with proper sandpaper

... Bump out and fill small dents

... Spray primer and sand to prepare for finish

... Compound and clean painted surfaces

... Static wheel balancing

... Wheel alignment geometry

... Adjust steering

... Adjust toe in on front wheels

Replacement of shock absorbers

Body hammers Body dollys

Viven files

Picks Body lacks

Grinders Sanders Spray gun

Primers

Sandpapers

Laquers Enamels

Wheel halancer Toe in gauge

Socket wrenches

Box and open end wrenches 3/8" and 1/2" drive socket

sats

Floor lift

Impact hammer

VOCABULARY

Dinging hammer

Spoons Dolly blocks

Disc sander

Sanding block Pick

Flange

Grit.

Impact

Porta power

King pins

Ball ioint

Tie rod ends

Drag links

Sector gear

Pitman arm

Toe-in or out-

Direct-acting shock

Absorbed

Vibration

Bushinas

Oscillation

Recoil

MATH

Liquid measure Square measure in inches and foot

Force

Addition and Subtraction of

fractions

New Jersev Related Mathematics: Body Vocational Division Curriculum Lab. New Jersey Automotive Refinish Manual Ditzler Repaint Manua

Auto Body Repair - 1

Understanding the Auto Automobile Chassis and Body

Steering

Shock Absorber

Dealer Supply

Catalogs

Monroe, Delco, etc.

FILMS

Ford Motor Co. Dearborn, Mich.

General Motors

Tarrytown, New York

Paint

People Who Fix Things

Good Hand, Good Eve. Dupont PPG-Glass for the Seventies,

Modern Talking Pictures

CASSETTE TAPES

Your Future as an Auto Body Repairman

FILM LOOPS

Automotive Body Repairman Encyclopedia Britannica

FIELD TRIPS General Motors Plant

Tech Center Class

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Trade: Auto

I. JOB.TITLE: Auto Body Repairman (Oxyacetylene/Welder)

IL JOB DUTIES: -

Welds metal parts together according to the blueprints or work orders.

May perform related tasks such as flame cutting and grinding.

May repair broken or cracked metal parts.

Selects and uses oxyacetylene, are or TIC welding process depending on the job and material being welded

Positions work in jigs, fixtures or clamps

May also do brazing, silver soldering, heat treating, bending as well as repair machinery

III. WORKING CONDITIONS:

Work may be performed inside or outside Welder may be exposed to fumes

IV. JOB REQUIREMENTS:

Steady hand and good eye-hand coordination Must be a very careful worker May be required to pass a qualifying examination

V. JOB CONDITIONS:

Determined by field trips, guest speakers, etc.

VL BASIC SKILLS AND KNOWLEDGE:

Must be able to plan work

Move hands and fingers rapidly and accurately

Work within prescribed standards and specifications

Measure accurately

Be able to visualize objects from drawings

VII. JOB PRACTICE:

Shop and laboratory experiences

VIII. ACADEMIC DEMANDS:

Reading: Welding manuals, trade journals,

blueprint reeding, welding charts

Math: Must be familiar with measurement

Verbal: Must be able to communicate with

supervisor and fellow workers

Written:

ADDITIONAL JOB INFORMATION:

- Disadvantages: Outside work is seasonal and requires careful budgeting of income
 Welder is always subject to severe burns from hot metal or torch flame
- Advantages: Employment opportunities are available in virtually every field
 Opportunity for advancement
- 3) Job Training: On the job Apprentice programs in industry
 Armed Forces training programs
 Vocational Schools

 Output

 Output

ERIC

Full Text Provided by ERIC

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... To develop an under-

standing of the working of

the oxyacetalene torch in a

... To know how to properly

light and use a welding torch

... To learn how to cut mefal

with an oxyacetalene torch

... To become familiar with

the welding process with an

oxyacetalene torch

LEARNING GOALS

safe manner

OCCUPATION: Auto Body Repairman (Oxyacetalene Welder)

torch

LEARNING ACTIVITIES '

... Set up, turn on and use

properly the oxyacetalene

... Weld together sections

... Braze sections of 1/8"

... Cut up metal with an

of 1/8" ferrous metal

oxyacetalene torch

ferrous metal

NO. 5 (Cont.) TEXT, WORKBOOKS **NEW TERMINOLOGY** TOOLS, EQUIPMENT MATH OTHER MATERIALS SUPPLIES* Auto Body Repair, N.J. State 3/32 rod A complete welding set **Education Department** Welding rods 1/8 rod Opportunities in Welding, Brazing flux Brazing rods American Welding Society Braxing rod Spark lighters Welding tip Gloves **FILMS** Welding rod Welding bench Trade films-American Weld-Penetration Metal for welding ina Soa. Metal for cutting Oxygen 345 E. 47th Street Acetylene N.Y., N.Y. 10017 Ferrous Oxyacetalene Flame-Master Non-ferrous of Metals, U.S. Bureau of Ouench Preheat Spark lighter FIELD TRIPS Crack cylinder valves Westchester Iron Works Blow thru Carborizing Carbonizing County Welding Supply, Neutral flame Croton Falls, N.Y. Fusion Tacking Butt weld Lap weld .84

ERIC

Full Text Provided by ERIC

BUILDING TRADES (Carpentry/Masonry)

OCCUPATIONAL READINESS CENTER

COURSE:

BUILDING TRADES

UNITS:

First Quarter:

'Masonry and Bricklaying

Bricklayer | Mason's Apprentice | Concrete Finisher (Mason's Apprentice)

Carpentry Carpenter Roofer

Resilient Tile Mechanic Insulation Mechanic

Dry Wall Applicator

Taper

Painter Apprentice

Second Quarter:

Same as above.

Third Quarter:

Same as above.

Fourth Quarter:

Same as labove.

Trade: Building Trades

L. JOB TITLES: Bricklayer/Mason's Apprentice

Concrete finisher/Mason's Apprentice

IL JOB DUTIES:

Lay out work by measuring distances from reference points and marking guidelines on working surfaces Measure and mix quantities of sand, gravel,

Portland cement to form concrete

Spread a soft bed (layer) of mortar that serves as a base and binder for the bricks, using a trowel

Apply mortar to brick ends and position brick in mortar bed

Tap bricks with trowel to level, line, and embed then in mortar allowing specified thickness of joint Remove excess mortar from face of brick, using trowel

Finish mortar between bricks with pointing tool or trowel

Break bricks to fit spaces too small for whole brick, using edge of trowel or brick hammer

Determine vertical and horizontal alignment of courses (rows), using plumb bob, gaugeline (tightly

stretched cord) and level guide

Fasten brick or terra cotta veneer to face of structures with tie wires embedded in mortar between bricks, or in anchor holes in veneer brick.

Construct forms for foothers:

Stack and store brick and block safely

Store and pile cement in weather tight piles

III. WORKING CONDITIONS:

Work with and around others, indoors and outdoors

Be exposed to all kinds of weather

Be subject to cuts and bruises from tools and materials

Be subject to possibility of falls from ladders and high places

Be required to travel to various job locations

IV. JOB REQUIREMENTS:

Be able to stand for long periods of time

Be able to bend, stoop, crouch, kneel, and crawl

Be able to lift and carry up to 95 pounds

Have good vision and hearing (normal or corrected)

Be able to climb ladders and walk on scaffolds

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VL BASIC SKILLS AND KNOWLEDGE:

Move fingers and hands rapidly and accurately

Work to prescribed standards (mixes)

Visualize forms and shapes from blueprints and sketches

Perform arithmetic computations accurately

Plan work and make decisions

VIL JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Be able to read instructions

Beginner blueprint and bills for materials, trade journals

Be proficient in arithmetic computations such as fractions, decimals, how to measure and Math:

square materials, elementary surveying

Be able to communicate with co-workers, supervisors, and or customers

Written: Be able to draw and label simple plans and sketches, write up job cost estimates

ADDITIONAL JOB INFORMATION:

- 1) Disadvantages: Work is frequently curtailed in bad weather Hazard of injuries from falls, and bruises from handling materials
- 2) Advantages: Good opportunity for advancement Good pay and fringe benefits for union members



3) Training opportunities: Vocational Schools Apprentice Program in industry

OCCUPATION: Bricklayer (Mason's Apprentice)

NO. 1

LEARNING GOALS

LEARNING ACTIVITIES

NEW TERMINOLOGY MATH

TEXT. WORKBOOKS OTHER MATERIALS

... To identify masonry tools and their proper use

... To identify types of brick, block and related masonry materials

... to develop an understanding of how to mix cement mortar (proportions, mixing) ... To develop the ability to bed and apply mortar to brick.

... To continue to develop the ability to lay brick to a line and to construct corners, plumb, straight, and square

... Construct square corners using layout ratio 3:4:5

... Construct corners of brick and block in shop area

... Construct walls between two corners with emphasis on spacing to a line, joints and safety

... Construct actual foundation using 8" concrete block for exterior walls and columns (small house)

... Apply brick veneer to front of existing foundation ... Show and discuss different types of brick and block ... Show measuring tools and discuss uses

... Find amounts to mix ratios of 1:2:4, 1:3:5, 1:3:6 ... Find amounts of sand, cement, and gravel

... Measure linear, square and cubic as it relates to forms and mix

Mason trowel Mason's hammer Mason's ruler Mason's line Plaster trowel Level

TOOLS, EQUIPMENT

SUPPLIES

Jointer Hawk Float-wood Float-rubber

Hoe Mixing box Shovel (Flat) Water barrel

Straight edge Edger Liner sand Lime

Portland cement Mortar cement Water

Stone-aggregate

VOCABULARY

Butter. Bad Strike Run Mud Bond Binders Joint .. Face Mortar Clav Shale Lap

Line

Area

Perimeter

Temper

MATH Whole numbers Fractions Linear measure

Concrete Form Construction Concrete Technology Blueprint Reading and Sketching, All by Delmar Bricklaving I & II . Workbook Mathematics for Masonry Trade Workbook Mathematics for Carpentry Workbook, All by Delmar

FILMS U.S. Navy Department Safety Films

Teacher Made Worksheet

OCCUPATION: Concrete Finisher (Mason's Apprentice)

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NO. 2

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
in To understand reasons for practicing good safety as a concrete finisher. To understand principles, methods and reasons for using reinforcing rods and/or mesh in concrete pads. To identify materials and be able to understand how to mix cement in correct proportions. To understand how to pour cement into a form and establish levels of finish. To understand how to finish cement pad. To understand reasons for and methods of sectioning off pad and finishing edges.	Construct footing forms Layout pad in equal equares. Line with liner and edger Establish levels for footings in forms Layout and tie reinforcing rods in shop and on project pad Mix concrete in a concrete mixer using correct proportions of sand, gravel, Portland coment, and water Even off cement with float and finish with cement finishing trowel	Cement finishing Trowel Float Kneeling pads Metal liner Metal Edger Straight edge Wheel barrow Shovel Rake Concrete mixer Portland cement Bolt cutter Marking crayon 6' Folding ruler Side cutting plier Size 14 wire	Concrete Form Frost line Excavation Cavities Fill Shoe Stud Walers Spreaders Brace Stakes Facing Screened Portland coment Drum Pate Chute Floated Batch Hopper Setup Puddle MATH Whole numbers Fractions Linear Measure Weight measure Area Perimeter	Home and Building Main- Tenance, McKnight & McKnight Concrete Form Construction, Delmar Mason- ry Trade Mathematics Work- book, Delmar FILMS Safety A Chance to Build Hidden Strength PAMPHLETS Atlas Portland Cement FIELD TRIPS Cement Plant Hudson, N.Y. Montrose Concrete Block Teacher Made Transparencies
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ERIC
Full Text Provided by ERIC

Trade: Building Trades

I. JOB TITLE: Carpenter and Carpenter's Apprentice

II. JOB DUTIES:

Read blueprints and sketches to obtain information as to type of material required and dimensions of structure or fixture to be made

Select specified type of lumber or other materials Mark cutting and assembly lines on materials

Shape materials to prescribed measurements using saws, chisels and planes

Fasten shaped and assembled materials with nails, dowel pins, or glue

Verify trueness of structure

Erect framework for structure and lay sub-flooring

Build stairs

Install partitions and cabinets

Lay hardwood, parquet and woodstrip block floors

Apply shock-absorbing, sound deadening, and decorative paneling to ceiling and walls

Fit and install prefabricated window frames, doors, doorframes, interior amd exterior trim, and finish

Construct concrete forms and pouring chutes

Erect scaffolding and ladders

III. WORKING CONDITIONS:

Work inside and outside under a variety of climatic conditions

Work with and around others or alone

Be exposed to dust and dirt from work site

Possibly work in high places on ladders and scaffolds

Be subject to possibility of cuts from tools and sharp materials

IV. JOB REQUIREMENTS:

Be able to stand for long periods of time

Have full use of arms, legs, hands and fingers

Be able to bend, stoop, kneel, crouch and move around easily

Be able to lift and carry materials weighing up to 75 pounds

Be able to climb ladders and work in high places

Be able to tolerate noise and dust

Be able to distinguish colors

Have good vision and hearing (normal or corrected)

V. JOB CONDITIONS:

Determined by field trips, guest speakers, etc.

VL BASIC SKILLS AND KNOWLEDGE:

Use of hand and power woodworking tools Ability to measure quickly and accurately

VIL JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Be able to read instructions

Beginner blueprint reading

Reed bills for materials

Be proficient in arithmetic computations such as fractions, decimals, and how to square Math:

materials

Some knowledge of trigonometry is helpful

Be able to communicate with co-workers, supervisors and customers

Written: Be able to draw and label simple plans

ADDITIONAL JOB INFORMÁTION:

1) Disadvantages: Weather conditions may hamper work or reduce work hours Work is often on a short-term basis

Must provide own transportation to frequently changed work site



- 2) Advantages: Employment opportunities and pay are good Opportunities for advancement are excellent
- 3) Training opportunities: Vocational Schools Apprentice programs in industry

GCCUPATION: Carpenter and Carpenter's Apprentice

LEARNING GOALS
... To inderstand reasons
for practicing good safety
... To become qualified in
the use of power tools and
hand tools used for a shop
.... To identify and know

... To identify and know uses of materials commonly used in wall framing

To identify and know isses of materials commonly used in floor framing

... To identify and know uses of materials commonly used in roof framing

... To identify and know use of materials commonly used in exterior side wall finishing

... To understand the application of all aspects of house construction

LEARNING ACTIVITIES

Discuss safety as it pertains

to carpentry

- a) Clothes
- b) Hard hat .
- o) Shoes
- d) Goggles
- e) Loose clothes
- f) Tools (Power and hand)
 Observe lafety films

... Construct mock-up of exterior partitions in shop to include

Studs Sheathing Fire stops

Top and bottom plates Layout and construct girders and floor platform (bridging, sill, lally column, box frame)

... Construct mock-up of roofincluding ridge, roof rafters, sheathing, gable studs, soffit, facia

... Install on mock-up asbestos shingles, cedar, clapboard, plywood

... Apply knowledge in sequential steps in the construction of a house

... Study and know different types of building materials and their uses in construction

... Familiarize students with specific trade (construction) vocabulary

... Practice in the use of various types of measurement and measuring tools as it relate to the construction field to include measuring and squaring planes

TOOLS EQUIPMENT

2x6

2x8
4x8x1/2 plywood
6 d common nails
8 d common nails
16 d common nails
Asbestos shingles
Cedar shingles
Clapboard shingles
Texture shingles

NEW TERAILMOLOGY

٠...

VOCABULARY
Top plate
Sole plate
Sheathing
Studs
Rafters
Ridge
Bridging
Girder
Header
Lally column

Lally column Gable end Soffit Facia Studs Ridge Jack Rafters Jack Studs

Jack Rafters Jack Studs Hips Valley Rako

Birds mouth ... Tail (rafter)

MATH
Square measure
Perimeter
Board measure
Cubic measure
Linear measure
Fractions
Addition, subtraction, division, multiplication

TEXT WORKBOOKS

Portable Power Tools Hand Woodworking Tools Framing, Sheathing and Insulation, All Delmar Modern Carpentry, Goodheart & Wilcox Pub. Practical Problems in Mathematics Workbook Blueprint Reading and Sketching Workbook Interior and Exterior Trim Workbook, All Delmar Bench Woodworking Woodworking Technology. McKnighe & McKnight Measure Up, Ferron Pub.

PAMPHLETS
Lidoyd Lumber Co., Inc.
School Shop' Plywood Series

FILMS

Safety Films
Area dn Perimeter
Hand Saws
Measuring & Squaring Planes
Hand Tools
Georgia Pacific Film Series

FIELD TRIPS

Sawmill
Danbury, Conn.
Gypsom Wallboard Plant
Buchanan, N.Y.
Kitchen Cabinet Factory
Middletown, N.Y.
Local Building Site
Kelly Saw Mill
Dover Plains, N.Y.



Trade: Building Trades

L. JOB TITLE: Roofer

IL JOB DUTIES:

Cuts roofing paper to size and aligns material with edge of roof

Fastens shingles or sheets to roof with nails or cement

Punches holes in slate, tile, wooden shingles with punch and hammer

Cuts and installs flashing at all angles formed by chimneys, walls, vents, and intersecting roof surfaces

Installs tar paper, liquid tar and gravel

III. WORKING CONDITIONS:

Works outside under a variety of climatic conditions May work at extreme heights on ladders and scaffolds

IV. JOB REQUIREMENTS:

Good physical condition and good sense of balance Apprenticeship Program - 3 years

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

, VI. BASIC SKILLS AND KNOWLEDGE:

Measurement, good physical balance and endurance No vertigo Basic mathematical computation of areas, ratios, etc.

VIL JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Read instruction sheets, blueprints

Math: Calculate surface areas, compute quantities of material required, measure with steel tape

ruller .

Verbal: Be able to communicate with co-workers and supervisor

Written: May be required to draw and label simple sketches

Prepare estimates

ADDITIONAL JOB INFORMATION:

- Disadvantages: Work may be hampered by weather Possibility of serious injury due to fails
- 2) Advantages: Pride of accomplishment since it is finishing work. Satisfying to those who enjoy exercise
- 3) Training opportunities: On the Job Apprenticeship Program Vocational Schools

OCCUPATION: Roofer

NO. 4

LEARNING GOALS

LEARNING ACTIVITIES

TOOLS, EQUIPMENT SUPPLIES

NEW TERMINOLOGY MATH

TEXT, WORKBOOKS OTHER MATERIALS

... To understand reasons for practicing good safety in roofing trade ... To identify and know use of materials and tools com-

monly used in roofing
... To understand the application of shingles on house
roof

Discuss safety as it pertains to roofing

Climbing ladders
Picking up heavy bundles
Storage of materials on
roofs

Proper shoes
Discàrding materials -

... Safety film strips

... Scaffold Guard
... Properly install on mock-

Felt paper Strip shingles Nailing

... Construct scaffolds and install roof shingles on house project

... Familiarize students with roofing materials, tools, and vocabulary

... Practice measuring requirements for roofing, gutters and leaders

... Estimate materials and costs

... Compute area and quantities

... Practice accourate measurement

Claw hammers
Utility knife
Staple gun
Staple hammer
Tin snips
Chalk line
Ruder

VOCABULARY

Alternate
Flat roof
Flat roof
Pitched roof
Slope
Roof deck
Bitumen
Membrane
Gutters
Vertical
Horizontal
Adhesives
Felt

Slag

MATH

Linear measure
Square measure
Fractions
Whole numbers
Percentage
Perimeter
Weight measure

World of Construction,
McKnight
Modern Carpentry,
Goodhart & Wilcox
Roof Framing, Delmar
Mathematics Carpentry
Trade Workbook
Delmar
Measure Up, Ferron

* FILMSTRIPS Tom Fairly BOCES Library Trade: Building.Trades

L JOB TITLE: Reflient Tile Mechanic

II. JOB DUTIES:

Install, replace and repair resilient tile, lincleum and vinyl sheet goods Plan work from sketch or plans Calculate quantities from plans Order materials Layout jobs according to schedule

III. WORKING CONDITIONS:

Indoors, dry and warm Often works alone Travels from job location to job location Must provide own tools Provide own transportation Work daytime hours normally

IV. JOB REQUIREMENTS:

Be able to lift boxes and cans weighing up to 50 pounds Be able to handle and manipulate tools (hand) Be able to kneel for long periods of time Be able to bend, stoop, crouch

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VL BASIC SKILLS AND KNOWLEDGE:

Measure and mark off floor in accordance with floor covering plan Make simple sketches Cut and fit materials Proper adhesives used for each type material Proper preparation of floor surfaces

VII. JOB PRACTICE:

Shop and laboratory experience

VIIL ACADEMIC DEMANDS:

Reading: Read blueptint, instructions, bills for material (shipping invoices) Math:

Calculate quantities for square feet, yards, etc. Calculate quantities for quarts, gallons, etc.

Follow verbal instructions and communicate with customer and/or supervisor

Written: Keep job sheets, time sheets, etc.

ADDITIONAL JOB INFORMATION:

- 1) Disadvantages:
- Advantages: Installers may shift from new construction to replacement jobs for winter season
- 3) Training opportunities: On the Job Vocational Schools
- IX. EVALUATION: As determined by teachers.

COURSE: Building Trades

OCCUPATION: Resilient Tile Mechanic

LEARNING GOALS

LEARNING ACTIVITIES

TOOLS, EQUIPMENT SUPPLIES

NEW TERMINOLOGY MATII

TEXT, WORKBOOKS OTHER MATERIALS

... To understand reasons for practicing good safety in resilient floor installation ... To identify and know use of materials, adhesives and tools used in resilient tiling ... Discuss safety pertaining to flooring Knives Lifting boxes and cans Lifting rolls of linoleum ... Properly install resilient tile on mock-up and any

permanent installations that become aballable ... Familiarize students with blue prints, instructions, bill

of materials, etc.
... Calculate quantities for square feet, yards, quarts, and gallons

... Familiarize students with roofers' "Job Sheet"

Chalk line
Ruler
Razor knife (retractable)
Square
Knotched trowel
Scratch awl.
Snips
Roller

9" and 12" tile

a) Vinyl asbestos

b) Asphalt

c) Rubber White adhesive Asphalt base adhesive VOCABUARLY

Scribe Spread Resilient Cement

NO. 5

MATH

Whole numbers
Fractions
Square measure
Linear measure
Perimeter

Home and Building Maintenance, McKnight & McKnight Construction, McKnight & McKnight Carpentry Mathematics Workbook, Delmar Measure Up, Ferron

FILMS
A Chance to build Safety

10

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Trade: Building Trades

L. JOB TITLE: Insulation Mechanic

IL JOB DUTIES:

Fasten sheets, batt, blanket and similar types of building insulation to walls, floors, ceilings and partitions with staples or nails

Cut insulation to size and shape with handtools or portable power tools

Fit insulation around obstructions such as pipes or wiring May wrap insulating material around air-conditioning ducts

III. WORKING CONDITIONS:

Work is performed indoors Often works alone

IV. JOB REQUIREMENTS:

Physical endurance and tolerance of repetitive tasks

V. JOB CONDITIONS:

Determined by field trips, guest speakers; etc.

VL BASIC SKILLS AND KNOWLEDGE:

Use of hand tools

VIL JOB PRACTICE:

Lab and shop practice

VIIL ACADEMIC DEMANDS:

Reading: Helpful to be able to read blueprints, lists of materials, insulation instructions

Math: May be required to calculate areas to size a job
Verbal: Must be able to follow supervisor's instructions
Written: May be required to prepare cost estimates

ADDITIONAL JOB INFORMATION:

Disadvantages: Seasonal work

IX. EVALUATION: As determined by teachers

OCCUPATION: Insulation Mechanic

NO. 6

LEARNING GOALS

LEARNING ACTIVITIES

TOOLS, EQUIPMENT SUPPLES

NEW TERMINOLOGY MATH

TEXT, WORKBOOKS OTHER MATERIALS

... To be able to install and secure insulating materials in structure framing, on air ducts and piping

... To be able to work from ladders and scaffolds having both hands free for work ... To be able to safely handle ladders, scaffolds, and tools of the trade.

... To maintain tools and equipment in workman-like condition

... To be able to identify most common types, of insulation materials ... Installation of batt and roll-type "Rock-wool" insulation in walls and ceilings of frame structures, using hammer and nails, stapling machines and staple hammer

... Cutting material with knives and snips to length, also cutting out for pipes and electrical fixtures

... Installation of roll-type insulation of metal ducts, using adhesives and wire to secure material. Cutting material to fit with knives and snips

... Applying insulation material to pipes, using bands, clips, and joint cement

Hammers Staples Nails Staplers

a) Guns b) Hammer

Knives
Snips-Scissors
Wire-cutting plier
Tie-wire
Trowels
Asbestos cement
Rulers
Measuring tapes
Ladders

Horses-planks

Rolling scaffold

Bath
Roll
Rock-wool
Asbestos
Aluminum foil
Vapor barrier
Blanket
Foam
Granules

MATH

Weight measure Linear measure Square measure Fraction Whole-fiumbers Estimating World of Construction
Home and Building Maintenance, McKnight
Modern Carpentry,
Goodheart & Willcox

Framing, Sheathing and Insulation, Wkbk., Delmar Measure Up, Ferron

FILMS
U.S. Navy Department

104

10

Trade: Building Trades

I. JOB TITLE: Dry Wall Applicator

II. JOB DUTIES:

Applies plasterboard or other wallboard to ceiling and interior walls of building Cuts and fits wallboard to studding and joints using hand tools Scribes measurements in wallboard using hawk-bill knife and hammer Trims edges to obtain even foint Workers perform as a team when installing ceilings

IIL WORKING CONDITIONS:

Work is performed indoors-

IV. JOB REQUIREMENTS:

Be able to lift sheets of wallboard Good physical endurance:

V. JOB CONDITIONS: -

Determined by field trips, quest speakers, etc.

VI. BASIC SKILLS AND KNOWLEDGE:

Measurement layout and use of hand tools

VII. JOB PRACTICE:

Lab and shop practice

VIII. ACADEMIC DEMANDS:

Reading: Blueprints and work orders

May be required to calculate surface areas to order materials, compute labor time and cost Math:

for estimates ...

Must be able to measure

Must communicate with supervisor and/or with customers Verbal:

Written: May be required to write up job cost estimate for labor and material

ADDITIONAL JOB INFORMATION:

1) Disadvantages: Work is seasonal

2) Advantages: Work is indoors

3) Job Training: On the Job Vocational Schools

IX. EVALUATION: As determined by teachers

OCCUPATION: Dry Wall Applicator

LEARNING GOALS	LEARNING ACTIVITIES	`TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	* TEXT, WORKBOOKS OTHER MATERIALS
To be able to erect and secure gypsum wallboard panels on interior walls, partitions, and ceilings To be able to measure, cut and apply panels to wood studs and rafters To be able to handle bulky panels safely and to work safely with sharp cutting tools To be able to adjust, repair, and maintain tools	Measuring, laying out, and cutting 4'x8' panels to fit areas of walls and ceilings using 4' T-square and wall-board knife Laying out and cutting holes for plumbing and electrical outlets using ruler, knife, and keyhole saw Working in teams to erect ceiling panels, using T supports while nailing Setting nail heads below surface to receive spackling	A' T-square Ruler Chalk-line Nailing hammer Nails Keyhole saw Marking pencils Plasterboard knife with replacement blades Wooden T support Benches or horses and planks	VOCABULARY Face Back Score Tack Flush Indent Board knife Outlet MATH Area measure Square measure Weight measure	World of Construction Homend Building Maintenance, McKnight Modern Carpentry Goodhart & Willcox Framing, Sheathing and Insuration Workbook, Delmar FILMS Georgia Pacific Series
			Whole numbers Linear Measure	
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NO. 7

Trade: Building Trades

L JOB TITLE: Taper

II. JOB DUTIES:

Seals joints between plasterboard to prepare surface for painting or wallpapering May mix joint compound by hand or with portable mixer. Spreads compound over joint, presses tape and covers tape with compound May float cementing material over entire surface. Spreads compound over nail depressions. May fill cracks and holes in walls and ceilings.

III. WORKING CONDITIONS:

Work is messy and performed indoors
May work alone

IV. JOB REQUIREMENTS:

Physical stamina
Ability to maintain balance on stilts while working overhead

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VI. BASIC SKILLS AND KNOWLEDGE:

Use of trowels, ability to balance on stilts

VIL JOB PRACTICE:

Lab or shop practice.

VIII. ACADEMIC DEMANDS:

Reading: Must be able to naviagate self to job site by reading signs, maps, etc.

Math: May have to estimate quantity of tape and joint compound required for a job

Verbal: Must be able to communicate with supervisor Written: May have to prepare time sheets, job estimates

ADDITIONAL JOB INFORMATION:

- 1) Disadvantages: New construction is a seasonal occupation Work is somewhat messy
- 2) Advantages: High rate of pay
- 3) Job Training: On the job Vocational Schools

IX. EVALUATION: As determined by teachers

OCCUPATION: Taper

LEARNING GOALS

LEARNING ACTIVITIES

NO. 8

NEW TERMINOLOGY MÄTH

TEXT, WORKBOOKS OTHER MATERIALS

... To be able to make a finished surface of gypsum board partitions and ceilings by the use of paper tape and taping cement

...To be able to work and use hand tools efficiently while standing on scaffold planks or wearing metal stilts

... To be able to identify tools and materials used in ·dry-wall taping

... Installation of joint compound or taping cement on nailhead depressions, board joints and oorners of walls

and ceilings

... Application of tape to the cement in joints. Smoothing of additional coment coast over tape and final sanding ... Installation of corner bead on exterior corner, smoothing cement and final sanding ... Adjusting and fitting metal

stilts ... Performing all of the foregoing on ceilings shile using stilts

Hawk Plasterer's trowel Pointing trowel Nail hammer

Wide blade taping knife Sandpaper Sandling block

TOOLS, EQUIPMENT

SUPPLIES

Electric sanderoscillating type Hotses and planks Stilts

VOCABULARY Ist coat, 2nd coat, etc. Feathering Plumb Square "Popping" of nails Drying time

MATH Estimating amounts of compound needed for a given area in gallons Whole numbers Linear measure

World of Construction Home and Building Maintenance, McKnight Framing-Sheathing and Insulation Workbook, Delmar Carpentry Math, Delmar

FILMS Georgia Pacific Series

Trade: Building.Trades

L. JOB TITLE: Painter's Helper and Painter's Apprentice

II. JOB DUTIES:

Smooths surfaces, using sandpaper, steelwool
Removes old paint from surfaces using paint remover, scraper, wire brush, blowtorch
Fills nail holes, cracks and joints
May mix paint
Paints surfaces with brush, spray gun or roller
May create special effects by applying paint with cloth, brush, sponge, or fingers
Stains interior or exterior surfaces of new homes.

III. WÖRKING CONDITIONS:

Work may be done indoors or outdoors in a variety of weather conditions

IV. JOB REQUIREMENTS:

Must be able to work from scaffolds or high ladders for some work assignments

V. JOB CONDITIONS:

Field trips, quest speakers, etc. #

May finish floors in older homes

VL BASIC SKILLS AND KNOWLEDGE:

Use of hand tools, measurement of area and calculation of materials and labor costs necessary for advancement

VIL JOB PRACTICE:

Lab or shop practice

VIIL ACADEMIC DEMANDS:

Reading: Must be able to read instructions for preparing paints and mixing colors, trade journals, and work orders

Math: May be required to compute surface area and calculate materials required to do a job

Verbal: Must be able to communicate with supervisor and/or customer

Written: May be required to write job instructions, job estimates, time sheets, etc.

ADDITIONAL JOB INFORMATION:

- 1) Disadvantages: Painting in the construction trades or outdoor work is seasonal and hampered by weather conditions
- 2) Advantages: Opportunity for self-employment is good providing one has the necessary academic skills
- 3) Job Training: On the job Vocational Schools

IX. EVALUATION: As determined by teachers

LEARNING GOALS

LEARNING ACTIVITIES

TOOLS, EQUIPMENT **SUPPLIES**

NEW TERMINOLOGY MATH

TEXT. WORKBOOKS OTHER MATERIALS

... To be able to prepare surfaces for painting and other types of finishes

... To be able to identify, select and handle safely the tools of the painting trade ... To be able to clean and maintain tools .

To know the characteristics of paint, oil and water based, varnishes, stains, shellac, laquers, and the appropriate solvents for each

... To be able to apply finishes on new and old surfaces. Wood, metal, and masonry ... To be able to safely handle, erect and adjust ladders and scaffolds

Scraping, sanding, filling holes and nicks in old surfaces, using hand scrapers and sandpaper, emery cloth and sanding machines. Smoothing and applying primer coats to new surfaces

... Lectures, films and student practice in selecting brushes for different materials, rollers, stipplers, and spray devices

... Lectures, films and demonstrations. Student - cleaning of tools with proper solvents, conditioning brushes

... Application of paints. enamel, varnishes, stains, etc. to floors, walls, ceilings and to furniture and fixtures using brushes, rollers and spray devices

... Erection of "A" ladders, extension ladders, pole scaffolds, patent scaffolds, horses and planks

Brushes Nylon Bristle Sash Trim Scrapers

Sand Paper Oscillating sander Belt Sander Disc Sander Pressure Spray Cans Electric Sprayers

Dropcloths Mixing paddles Color charts Scaffolds

Ladders Planks Horses Masking tape

Steel wool Paint-oil or latex Enamel

Shellac .

Varnish and stain Lacquers Linseed oil

Turpentine and thinners Paint rollers and pans

Estension handles Puttv

Plasticwood Pigments-oil and powder Sizing

Spackling

VOCABULARY Primer Sizing Spackle Cutting-in **Trimming** Sash tool

Covering-hiding Blistering

Peeling Checking Alligaturing

Pressure Nozzle Orifice

Spray pattern Masking.

Flat Gloss Semi-aloss

Texture Thinning . Abrasive

Absorb Alcohol Resisting

Alkyd Oxide Finish

Primer Benzene Caulking

Compound Coating

MATH

Whole numbers Addition Subtraction Multiplication Division Percentage Linear measure Square measure

Painting and Decorating McGraw-Hill Home and Building Maintenance, McKnight Painting and Decorating Goodheart & Willcox

FILMS U.S. Navy Department

Teacher Made Materials

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BUILDING TRADES
. (Electrical/Plumbing)

OCCUPATIONAL READINESS CENTER

COURSE: BUILDING TRADES

.UNITS:

First Quarter:

Plumber's Apprentice Plumber's Helper

Electrician's Apprentice Electrician's Helper

Maintenance Man, Custodial Maintenance

Second Quarter:

Same as above.

Third Quarter:

Same as above.

Fourth Quarter:

Same as above.

Trade: Building.Trades -

I. JOB TITLE: Plumber's Apprentice and Plumber's Helper

IL JOB DUTIES:

Plan work from sketch or building plans

Locate and mark position of pipes, pipe connections and passage holes in walls and floors

Cut openings in walls and floors for pipe and pipe fittings

Cut, bend, join and treed pipes according to specifications

Weld and solder pipe joints

Assemble and install yelves, pipe fittings, pipes and plumbing fixtures according to building codes

Test system for leaks

Repair and maintain plumbing and fixtures

III. WORKING CONDITIONS:

Work inside and outside under various climate conditions

Be subject to cuts and bruises from tools and materials

Work with and around others or alone

Be exposed to dust, dirt and grime from work site and materials

Be subject to burns from soldering irons, torches hot pipes or steam

Be exposed to disagreeable odors

IV. JOB REQUIREMENTS:

Be able to tolerate noise, dirt and odors

Be able to lift equipment weighing up to 75 lbs., and carry material weighing up to 50 lbs.

Be able to handle and finger tools and materials

Have good vision and hearing (normal or corrected)

Be able to stand for long periods of time

Be able to work in cramped, uncomfortable positions

Be able to bend, stoop, crouch and do heavy work

Many localities require licensing of plumbers

JOB CONDITIONS:

Determined by field trips, quest speakers, etc.,

VI. BASIC SKILLS AND KNOWLEDGE:

Use of hand tooks for cutting, bending, threading, sweet soldering, blueprint reading

Basic mathematics for measuring, estimating, etc.

. Be able to work to prescribed standards consistently and follow procedures and specifications

VII. JOB PRACTICE:

In shop - Field trips to job sites

VIII. ACADEMIC DEMANDS: , *

Reading: Be able to read instructions

Beginfiet blue print reading

Bills for materials:

Math: Be proficient in arithmetic - computations, fractions, decimals, how to measure and square

Be able to communicate with co-workers and supervisors

Written: Be able to draw & label simple plans and sketches

ADDITIONAL JOB INFORMATION:

1) Disadvantages: weather may curtail work hours

Work is frequently short term and/or seasonal

Work is strenuous, dirty

Subject to burns from soldering irons, molten solder, not pipes or steam

.2) Advantages: Opportunity for self employment

Good pay and frings benefits

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3) Job Training: On the job Vocational Schools
Programs

IX. EVALUATION: As determined by team of teachers

NO. I

OCCUPATION: Plumber's Apprentice and Plumber's Helper

LEARNING GOALS

LEARNING ACTIVITIES

TOOLS EQUIPMENT SHIPPLIES

NEW TERMINOLOGY MATH

TEXT. WORKBOOKS OTHER MATERIALS

Discuss general safety and understand safety procédures used in the plumbing trade

- a) General
- b) Handling power tools and equipment
- c) Handling hot materials and to the
- ... To be able to identify tools used in the plumbing trade
- ... To be able to identify materials and fixtures used in plumbing systems
- ... To become familiar with the use and maintenance of tools used in the plumbing trade
- ... To become familiar with the use of blueprints and nlumbina symbols
- ... To become familiar with cutting and joining of cast iron pipe and fittings
- ... To become familiar with the State Bldg. Const. Code ... To become familiar with cutting, threading and joining steel pipe and fittings ... Be able to cut, clean, and join copper tubing and fittinas
- ... To be able to cut and join plastic pipe and fittings ... To become familiar with the maintenance and repair of plumbing systems
- ... To become familiar with The Builders Institute and its' functions
- ... To become familiar with different types of heating a :ins

Safety diames

- a) Use of safety glasses and/or googles
- b) Wearing of proper clothing and shoes in lab
- a) Using electric drills. saws, threaders, etc.
- d) Use of caution in caulking (cast iron pine)
- ... Demonstrate and practice safe plumbing methods
- ... Discuss blueprints What is a print?
- Why use it?
- ... Identify and find on a blueprint:
 - Doors Windows Water closets Bath tub
- Sink and vents Shower
- Trap and waste valve Hot water lines
- Cold Water lines
- ... Make up materials list from prints, using architects scale and rule
- ... Lavout drain line location usina prints
- ... Determine size and length of drain line
- ... Identify types of cast iron pipe and fittings
- ... Discuss properties and uses of cast iron
- ... Measure and out cast iron pipe
- ... Assemble and yarn cast iron pipe and fittings
- ... Melth caulking lead
- ... Test lead temperature
- ... Discuss and practice using

Safety goggles Electric drills

Electric saws/Sawzall)

Extension cords(3 wire)

Threaders Torches Tanks .

First-Ald Kit

Bluenrints Building plans

Dividers

Pencils

Rules Architects scales

_Paper

Graph paper 6 ft. folding rule

50 ft. and 100 ft. tape

measures Chalk

Mason line

Line level Prints

Various lengths and sizes of

cast iron pipe

Various cast iron fittings

Hammer Chisel

Pipe cutter (cast iron)

Ratchet cutter

Scrap pieces 2"x4" and

2"x6" Oakum

Yarning irons

Lead wool

Straight-edge

Lovel Runner

Lead pot

Ladle Furnace

Hood

Emergency Power shut-off

Red "Panio" hutton Grounding

Prints specifications

(specs) "Take-off" Architects scale

Symbols

Isometria drawing Orthographic drawing

Kev Sketch. Lot line Elevation

a = center line Folding rule

(Zig-Zag rule)

Tapes ' "Tape-it-off" Mason line

Building drain Single hub Double hub

I.D. (inside diameter)

Plumb-bob Bell and spigot

Y's T.V's Sweeps 1/8 hands 14 bends Bald-piece

Extra-heavy Service weight

Ratchet cutter Supported

Formula for grade F = L

10d

Pitch '4" per foot Offset from 260 F.P.M.

General Safety Rules

State Building Construction Code applicable to plumbing

World of Construction: Home and Building Maintenance. McKnight

Plumbers and Steamfittérs Guidas, Audal

Mathematics for Plumbers and Steamfitters Delmar Publishers

Blueprint Reading and Sketching, Plumbing Trades, Delmar

Related Information Plumbing - 1. Delmar

Related Information Plumbing - 2. Delmar

Measure-Up Workbook Fearon ~

Occupational Outlook Handbook

Occupational Dictionary

Various Blueprints and Plans

FILMS - AND FILMSTRIPS General Shop Safety, BOCES It Didn't Have to happen, **BOCES** Following are all provided by The National Association of Plumbing-Heating-Cooling Contractors 1016 20th Street, N.W.

OCCUPATION: Plumber's Apprentice and Plumber's Helper

LEARNING GOALS

TOOLS, EQUIPMENT SUPPLIES

NEW TERMINOLOGY MATH

TEXT. WORKBOOKS OTHER MATERIALS

LEARNING ACTIVITIES oakum, caulking lead, lead wool, cement and plastic

fillers

... Pour lead, caulk and dressup joints

... Disouss use and purpose of house trap, vent and cleanouts

... Install clean-outs in cast iron waste line

... Discuss characteristics of various types of steel pipe and fittings

a) Weight

b) Wall thickness

I.D. and O.D.

d) Types of welds

... Measure, cut, and ream galvanized pipe according to iob sheet specs.

... Thread and assemble pipe and fittings as detailed on sketch or specs.

... Discuss threading principle

- a) Length of thread
- b) Depth of thread
- of thread
- r tight joint

... Discuss pipe and fittings measurements

- a) O.D.
- ,b) I.D.
- a) End to end 1
- d).End to center
- a) Center to center
- f) Face to face
- g) Shoulder to shoulder
- h) Fitting allowance

... Measure and out copper tubing according to job sheets or specs, using proper tools

... Ream and clean tubing and fittings sid assemble for soldering according to Caulking lead Lighter Paper Caulking irons Cast iron house traps

Vent caps Fresh air inlet plates

Cast iron clean-outs - in-

verted and surface Ralck pipe

Galvanized pipe Wrought fittings

Cast fittings Drainage fittings

Vises Cutters

Hacksaws

Reamers

machine Pipe threading Drop-head ratchet threader Cutting oil

Pipe wrenches Taflon tape

Pipe dope

Tubing cutters Copper tubing

Copper sweat fittings

Tubing reamers Sandcloth

Steel wool

≰Soft tubing

Hard tubing

Right-angle drill

Sawzall Brace-bit

Kdyhole saw

Nails

Strape Striker

Solder

Flux Propane torch

Goss tank

Prest-o-lite torch

Grade-fall Pot , Furnace Lead wool Yarning

Caulking Fillers

Striker

"Dress-up joints Develop rhythm

Brittle-chips

C.I. (cast fron) Mushroom Cap

Fresh air inlet Clean-outs

Inverted Flush

Wall covers

Galvanized Wrought

Drainage' Standard

Extra-heavy Double extra heavy

Tri-stand vise

Yoke vise Chain vise

4-wheel cutter 3-wheel cutter

"Shoulder" of fitting "Throat" of fitting

Ruck of fitting Fabe of fitting

a of fitting

a to a

E. to E. (end to end)

E. to c Spiral reamer

Sulphur oil Taper thread

Water tight Rigid oiler

Tellon tape

Pipe dope

Washington, D.C., 20036 Sewers-Guardian of Community Health Modern Pipe for Modern Living Piping Safety Wrought Iron-Yesterday, Today Tomorrow Life Lines of Your Community Pine Schemes Loop and Circuit Venting in the Plumbing System " Toward a Uniform

Plumbing Code A Drink for Judy Safe Water in the Home Designs for Better Living The Fluid of Life Pipeline to the Clouds The Ominous Arms Case The Anatomy of a City Modern Sewers for Modern Communities

Municipal Sewage Treatment Processes

Following films available through Modern Talking Picture

23-23 New Hyde Park New Hyde Park, N.Y.

Underground Study of Natural Gas

These are My People Constant Search Impact

Search for Total Comfort Energy on the Move

This is Steel

The Toughest Inch Piping Pointers

Choosing the Right Valve

PAMPHLETS American-Standard Co.

NO: 1 (cont.)

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
	job sheets and specs Discuss use of different types of tubing and fittings	Caps Pluga Gauges	Face of die Tee's Ell's	Crane Co. Slant-fin Corp. Universal-Rundle
	Layout and cut waterline holes in wooden stud wall work stations	Fittings Hoses Test pressure pump	Unions Nipples Male Thread	Goulds Pump Deming Pump Delta Faucet
	Discuss and practice proper soldering techniques Discuss principles of sold-	Sinks Basins Traps	Female thread Bull	Triangle Copper and Brass Niboo Co. Chase
	ering and various types of solder	Valves Stops	Plug Cap Bushing	Conse Lead Industries Builders Institute
	Solder tubing and fittings according to plan Discuss uses of plastic	Supplies Nipples	Reducing tee T-Y D-W-V	TEACHER MADE MATERIALS Plans and Prints
	pipe and fittings Measure and out plastic pipe according to job sheets	Seals Bolts Water closets	K L M	Job sheets Information Sheets Transparencies
	Discuss and practice proper solvent welding techniques Ream and pre-fit plastic	Spud wrench Screwdrivers Plastic pipe (tubing)	Cast Wrought Street fitting	Operation Sheets Builders Institute literature and reports
•	pipe and fittings according to job sheet Discuss principles of sol-	Plastic fittings Plastic pipe cutter Solvent cement	Coil-soft Length-rigid Sawzall	, ,
	vent welding Solvent weld plastic pipe and fitting according to job	Rigid plastic Coil plastic Solvent brushes	60/40 solder 50/50 solder 40/60 solder	
	sheet Pressure test waste and water lines	Closet augers Snakes Rubber gloves	95/5 solder Prest-o-lite Goss tank	` `
	Set and check-out fixtures for proper operation Discuss purpose and use of	Plungers- Cresent wrenches Pliers	Flux Propane Formula-	
	traps and trap seal Display and discuss use of . maintenance and repair tools	Reseating tool Single lever faucet Washers	450 offset 1.41 x length of offset =	
	Determine location of stoppage and clear using	o-rings Basin and bath faucets Seat wrenches	a to a measirement Fitting allowance Monel seats	
	proper cleaning tools Practice replacing washers in kitchen sink, basin and	Handle puller Flushometers	Bibb screws Taps Neoprene	,
	bathtub faucets Repair and reseat valves and faucets	Repair kits Balloooks Float balls	Top-hat washers Cartridge Diaphragm	
123	Replace faucets and valves	Rubber balls	Mushroom	124

LEARNING GOALS

NO. 1 (cont.)

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TEXT, WORKBOOKS

<u>OTHER MATERIALS</u>

NEW TERMINOLOGY TOOLS, EQUIPMENT LEARNING ACTIVITIES
Repair and/or replace Life with SUPPLIES MATH Main seat Guides flushometers and balloocks By-pass valve ... Discuss winterizing sum-Refill tubes Upper and lower chambers mer homes (closed building) Pamphlets | Draining ... Discuss purpose and acti-Pay scale Frost line vities of Institute Union rates Welfare fund ... Make an estimate of the Baseboard Pendon fixtures that should be re-Radiation Vacation fund placed in your home Oilburner and controls Annuity Sinks Coal **Builders Institute** Bathtube Filters Radiation Showerz Fire-o-matic valves Filters Tollets **Thermostats** Fire-o-matic Faucets Cad-call Night-day thermostat ... Determine the cost (with-Stack switches Differential out labor) to put in new Aquastats Degree-day fixtures using teacher made Cad-call ditto sheet Stack switch ... Draw a typical septic Aquastats tank and drainage system for Pressuretrols* a one family house and Delay-valves. label the parts Plenum ... Determine the processes Return air of a septic tank using the Zoned teacher made ditto Loop ... Make a study of the Main sewage system in your home Thread engagement including checking all clean Make-up out plugs and traps. Complete Copper-coated teacher made ditto sheet Heel-T ... Visit a hardware store Roughing-in and make a list of equipment Hydraulio available for sale or rent Traps cleaning stopped-up Stops drains and repairing fixtures Globe valve ... Uzing a teacher made Gate valve ditto sheet make a layout - Water closet of your home showing the Trap seal position of the house, gar-Adjustable wrench age, shrubbery, sidewalds, Monkey wrench and driveway. Lay out a Strap wrench sprinkler system to service Solvent-welding the lawn and shrubbery Rigid plastic ... Discuss and compare duties

ERIC

OCCUPATION: Plumber's Apprentice and Plumber's Helper

NO. 1 (cont.)

LEARNING GOALS	LEARNING ACTIVITIES .	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
BELLEVIA COLEM	and pay of following trade	•	Coil plastic	
	areas:	[
	Asbestoe worker and Insul-	! ~ .	Fusing	, , , , , , , , , , , , , , , , , , , ,
	ator Carpenters		Chemical reaction	
	(In-shop Carpenters)		D.W.V.	
	Electricians		P.V.C.	į.
	Glaziers -		A.B.S.	
	Laborors		Pre-fit	
	Operation Engineers		Expansion joint	i
	Painters	•	"Sound pipe"	ı
	Plumbers	· · · · · · · · · · · · · · · · · · ·	Stoppage	·
<u> </u>	Discuss and compare ad-	ť	Force-oups	, .
	vantages and disadvantages	· ·	"Plumber's friend"	
	of the four basic types of		Reseating tool	
	fuels: oil, gas, coal		O-rings	*
	Display and discuss heating		Packings	•
4	contrôls	\\$	Seats	•
•.	Determine the type of		2-pipe	,
į	heating system you have in		Coil	.
	your home		Tankless	
-	Hot water	`	Vac-u-matic	
j	Hot air	•	Convection .	İ
	Steam		Conduction	
+	Determine the most eco-	3	Radiation	
:	nomical heating system to	, 7	Radiate heat	•
_	have using teacher made	i	Transference	
	ditto sheet	·	l	•
	Determine the cost of your			•
	monthly heating bill includ-	<u> </u> -		
	ing the size of your house			1
\ ·	Maké a visit to a local			•
	construction site and com-			
' '	plete teacher made question:	¢	:	
•	naire			_
,	Using the teacher made			
ŕ	ditto sheets list as many			1
	blue print symbols as you		۸ • ₉	•
	The state of the s		• '	1
8 ,	can Carpentry	.	1	1
	Carpentry	_		1.
i	Masonry Electrical		,	
·	Eleutiudi Diumbina		• • .	1
	Plumbing		,	128
j		• • • • • • • • • • • • • • • • • • • •	,	⊬~
ì	•	Í	_	. ,
127	•			· . /
DĬC · · · · · · · · · · · · · · · · · · ·	<i>,</i> •	· · · · · · · · · · · · · · · · · · ·	**] -

Trade: Building Trades:

I. JOB TITLE: Electrician's Helper

IL JOB DUTIES:

Assists electrician to install and repair electric wiring, fixtures, and equipment

Measure, cut'and bend wire and conduit

Drills holes for wiring

Assists in lifting, positioning, and fastening wiring, conduits, fixtures, receptacles, outlets and switches

Performs minor repairs

Maintains tools and equipment

Keeps materials and supplies in order

III. WORKING CONDITIONS:

Work inside and out under various climate conditions and materials

Work alone or as part of a team

Be exposed to dust, dirt, and grime from work site and materials

IV. JOB REQUIREMENTS:

Must be physically fit, having full use of arms, legs, hands and fingers

Be able to stand for long periods

Be able to climb stairs and ladders

Be able to lift and carry heavy loads

Have good vision and be able to distinguish colors

Be able to manipulate hand tools

Be able to measure and compute amounts of materials for particular tasks

V. JOB CONDITIONS:

May involve exposure to extreme weather conditions

May require extended periods of work in confined spaces

Working at considerable heights or below ground

Work with others

VI. BASIC SKILLS AND KNOWLEDGE:

Basic math for measuring and estimating

Ability to follow instructions and adhere to procedures

Must be able to work to prescribed standards

Manual dexterity for use of hand tools

VII. JOB PRACTICE:

In shop installations in conjunction with other trades

Visits to job sites, materials manufacturers

VIII. ACADEMIC DEMANDS:

Reading: Be able to read and understand instructions

Identify kinds of materials by labels

Read materials lists, bills, and job orders

Math: Basic math for use of rulers and tape measures

Computing of lengths of wire and pipe

Estimating quantities

Verbal: Be able to communicate with fellow workers and supervisors

Describe procedures and specific problems

ADDITIONAL JOB INFORMATION:

Employment prospects are always good

Opportunity for self employment

Construction electrical work is seasonal and dependent upon weather conditions

Pay scale is one of the highest

IX. EVALUATION: As determined by teachers

OCCUPATION: Electrician's Apprentice and Electrician's Helper

LEARNING GOALS

LEARNING ACTIVITIES

TOOLS, EQUIPMENT SUPPLIES

NEW TERMINOLOGY MATH

TEXT, WORKBOOKS OTHER MATERIALS

General Safety Rules

... To become familiar with and understand safety procedures used in the Electrical Trade

- a) General
- b) Working "Live" wires and circuits
- o) Handling power tools and equipment
- d) Handling soldering iron torches, and guns
- e) Proper grounding
- ... To be able to identify tools used in the electrical trade
- ... To be able to kientify materials and fixtures used in constructing electrical wiring systems
- ... To become familiar with the use and maintenance of tools used in the electrical trade
- ... To be able to identify the various types of outlet boxes used in the electrical trade ... To become familiar with the principles and properties of electricity
- a) Ohm's Law
- b) Power Formula
- o) Magnetism

ERIC

- d) Statio Electricity
- ... To become familiar with the use of blueprints and electrical symbols
- ... To become familiar with the methods of cutting b-x cable ... To become familiar with the methods of preparing and in-
- stalling b.x cable
 ... To become familiar with
 the uses and installation of
 Romex wire
- ... To be able to construct

... Discuss general safety and use of safety glasses and/or safety goggles

- ... Discuss safety procedures followed when working with "Live" wires
- Discuss and explain the need for proper work clothing and shoes
- a) No loose clothing
- b) Rings, watches, chains, etc. ... Discuss proper use and care of electric drills, saws, threaders, meters, etc.
- ... Discuss, explain, and demonstrate the hazards of not grounding and/or the misuse of power equipment
- ... Demonstrate, discuss and practice proper methods of handling and using soldering irons, torches and guns
- ... Discuss and demonstrate how proper grounding eliminates shock hazard
- a) Ground fault interrupter ... Using charts and texts identify the various types of outlet boxes; record information on teacher made ditto sheets
- ... Select proper outlet boxes to fulfill regulæments stated on sob sheets
- ... Mark locations and install selected boxes in walls and ceilings of work stations
- ... Discuss and practice the application of Ohm's Law and the Power Formula
- a) Given any two (2) factors of Ohm's Law, calculate and record unknown on job sheet

Safety Glasses
Safety Goggles
Safety charts
Rubber gloves
Meters
Ohm
Volt
Ampere

Electric drills
Right-angle drill
Electric saws
(sawsall)
Extension cords
(3 wire)

Threaders
Soldering irons
Soldering torohes
Soldering guns

First-aid Kit:
Ground fault
Interrupters
Grounded Outlets
Ungrounded outlets

B-X cable Romex wire Rubber "S" cord

Lamp "Zip" oord Test light Pig-tail socket

Fuses
Fusetron
Fusetat
Wire size charts

Outlet box chart and sample display Gem boxes Square boxes Octagon boxes

Ceiling boxes
Ganged gem boxes
Handy boxes
Joist and stud

Mount boxes

"Live" - "Hot"
Shock
Circuit
Meters
Ohm
Volt

Ampere (Amp.) Emergency

Power shut-off Red "Panio"

Button

Right-angle drill

Grounding Shorts Grounds

Short-drouit

Code Ground fault Interrupter

(G-F-I) "S" oord

"Zip" oord National Elec

National Electrical Code National Board of Fire Under-

writers
Underwriters
Laboratory
(U-L)

Pig-tail Fuse Fusetron

Fusestat ,
Outlet boxes

Gem Square Octagon Celling Ganged

Handy . Shallow Deep

Joist mount

National Electrical Code **World of Construction** Home and Building Maintenance McKnight Electric Trades, Delmar Practical Problems in Mathematics. Electrical Trades, Delmar Basic Mathematics for Electricity and Electronics, Bertrand D. Singer Handy Book of Practical Electricity, Audel A New Electric Library. Vol. I. Vol. III. and Vol. Vol. VII, Audel American Electrician's Handbook, McGraw-Hill Direct Current

Fundamentals, Delmar

Fundamentals; Delmar

Interior Wiring and Estimating

Hand Tools, Their Correct Use

and Care, General Motors Corp.

Principles,

Alternating Current

Amer. Tech. Sog.

McKnight ·

Basic Electrical

Measure-up, Feron

Occupational Outlook Handbook Occupational Dictionary

Blueprint Reading for The Construction Trade, McGraw-Hill Electrical Trade
Blueprint Reading and Sketching Delmar
Building Trades Blueprint Reading and Sketching (Basic Course)

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NEW TERMINOLOGY

LEARNING GOALS electrical circuits (series and parallel) ... To be able to identify types and sizes of wire used in the electrical trade ... To become familiar with the different types and sizes of conduit and fittings a) Rigid b) Thinwall c) Flexible ... To become familiar with the uses of the different types of conduit and fittings ... To become familiar with the methods of cutting, threading and bending conduit ... To become familiar with the installation of wire in conduit ... To become familiar with the National Electric Code

LEARNING ACTIVITIES	•
Given voltage of a circuit, record on a job sheet the fol-	
lowing:	
a) Measure resistance and cal- culate amperage	
b) Measure amperage and cal-	
gulate resistance	
Using Power Formula, cal- culate and record on job sheet	
the following:	
/ a) Given wattage load and volt-	
age, find amperage draw and	
record b) Given wattage load and am-	
perage find voltage required	
Demonstrate and discuss	
. laws of magnetism	
a) Magnetic field by use of	
magnet, paper, and iron	
filings b) Construct electromagnet us-	
ing nail and insulated wire	
c) Compare and record dif-	
ferences observed using elec-	
tromagnet and permanent	•
magnet Using experiments, demon-	i.
strate and discuss effects of	
static electricity	
a) Van de Graff generator	
b) Rug and glass rod	
c) Pith-balls Discuss and use blueprints	
a) Locate and identify elec-	
trical symbols	
b) Find and record number	
of outlets in each room	
c) Make up material list from prints, using Architects scale	
and rule	
Discuss and practice cutting	
'b-x cable to length with hacksaw	

... Discuss and practice preparing

TOOLS, EQUIPMENT SUPPLIES Screwdrivers Hammers. Nails **Pencils** Rulers Staples Hand saws Paper . Compas Iron-Filinas Magnets Insulated wire Solenoida VAn de Graff generator Glass rods Pith balls Blueprints Building plans Sketches Dividers Architects scales Graph paper b-x cable Hacksaw Linesman pliers Diagonal cutting pliers Needle nose pliers Brace Wood bits Rells Pish buttons Wire Lights Switches Duplex outlets Romex Connectors Panels Rigid pipe Thin wall Greenfield Threaders Cutter

MATH Stud mount Connectors Staples Ohm's Law E=IR Power Formula P=IE Voltage-Volt Ampere-Amp. **Amperage** Resistance Watt. Wattage Power Given Electric flow Magnetism Static electricity Magnetic field Electro-magnet Colls Windings North pole South pole Charge Attract-repel Iron-filings Solenoids Permanent magnet Van de Graff generator Glass rods Pith balls Prints Specifications (Specs) Architects scale Symbols Isometric drawing Orthographic drawing Key Sketch Lot-line Elevation

Delmar FILMS AND FILMSTRIPS Coils and Electric Currents, Engygolpedia Britannica Magnetic Effects of Electricity, Encyclopedia Britannica Saga of Safety Sam. BOCES A Safe Shop, BOCES Split Second to Disaster, BOCES It Didn't Have to Happen. BOCES Safety with Electricity, BOCES General Shop Safety, BOCES People Who Fix Things, BOCES A B C of Hand Tools, BOCES Primitive Pete, BOCES Turn a Handle-Flict a Switch, BOCES Mechanical Drawing I Shape and Design, BOCES What is Electricity? -Westinghouse Principles of Electricity, General Electric Alternating Current. ' Castle Films Water Power Encyclopedia Britannica Series and Parallel Circults. Encyclopedia Britannica Series and Parallel Circuits, Encyclopedia Britannica

FIELD TRIPS

(Commercial and Residential)

Construction Sites

Phelps-Dodge Co.,

TEXT. WORKBOOKS

OTHER MATERIALS



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OCCUPATION: Electrician's Apprentice and Electrician's Helper

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
	b-x cable a) stripping insulation b) Installing anti-short bushing Install b-x cable in work sta-	Reamer Benders Conduit Fittings	c≂center line Folding rule (Zig-Zag rule) b-x cable	Yonkers, New York Hudson Wire Works, Ossining, N.Y.
•	tions according to sketch a) Locate and drill holes	Pipe wrenches Adjustable wrenches	Diagonal out	PHAMPHLETS AND CHARTS General Electric
	using brace and bit b) Fish cable through holes	Cutting oil Fasteners	Anti-short bushing (Redcap) Linesman	Westinghous€ Corp. Allen Bradly
•	and install in outlet boxes Assemble materials needed to	T-W wire Fixture wire	Diagonal Needle nose	Grouse Hinds Square-D
		Building wire Cocknuts Bushings	Brace 1 "Fish" 12/2	RACO - Simpson Meters Triangle Wire Co.
	a) Button and bell b) Bell and two buttons a) Two bells and one button	Threadless connectors B-X connectors	12/2 12/3 14/2	Lead Industries Hilto Fasteners
	d) Light controlled by single pole switch	Duplex connectors Angle connectors	14/3 Conduits	Ramset Thomas and Betts Co.
	e) Duplex outlet and switch controlled light	Condulet	Rigid (pipe) Thinwall (E.M.T.)	Honeywell Joslyn Mfg. & Supply Co. Bell Electric Co.
•	f) Light controlled duples out- let g) Switch controlled duplex	•	Flexible (Greenifield) Cocknuts Bushings	Cerro Wire and Cable Co. Phelps-Dodge Wire Co.
	outlet Discuss and practice outling		C Threadless Connectors	TEACHER MADE MATERIALS
4	and preparing Romex wire a) Cutting to length	_	B-X Connectors Duplex connectors	Plans and Prints Job Sheets
	b) Stripping insulation Install Romex wire in work stations as job sheet indicates		Angle connector Seamless T. & C.	Information Sheets Trasparencies Operation Sheets
	Discuss uses of the types and sizes of electric wire		(thread and coupling) Snakes	
	Examine and label different types and sizes of wire and		Tape "Pulling" wire —	
	complete teacher made ditto sheets Determine the different types		"Feeding" wire T-W wire Building wire	
	of lighting used in students'	·	Fixture wire	
at the same of the	List the different fixtures and lutlets used in each room			
	Measure the amount of light given off by each light	•		135
0 1 13.1	Use a 12 or 14 wire and make	- ,		1.00

COURSE: Building Trades 2

OCCUPATION: Electrician's Apprentice and Electricion's Helper

NO. 2

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS
	a western union splice, branch tap, and a pigtall splice; solder the splices. Construct a parallel and series circuit on panel board Wire a one-bell circuit so that it is controlled by a one-push button Wire a circuit so one push button will control a doorbell and another push button will control a busser Make a circuit board connecting a single switch to a light Make a circuit board connecting a single switch to an	BULLER	MAIR	OTHER MATERIALS
	outlet			
			1	37
,	136	.		•
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BUILDING MAINTENANCE OCCUPATIONS

Trade: Building Maintenance

L. JOB:TITLE: Maintenance Man, Building and Custodial Maintenance

II. JOB DUTIES:

Perform minor plumbing repairs on faucets and tollet mechanisms and clean out clogged pipes and joints

Perform minor carpentry work such as replacing or building shelves and cupboards; repairing or replacing window sashes and door knobs

Perform minor electrical work such as replacing light bulbs, florescent lights, fuses and switches
Perform minor plastering and painting work such as filling in cracks and holes, and repainting repaired

Repair cracks and defects in coment floors, sidewalks and driveways and replacing broken tiles in bath-rooms; kitchens, etc.

Perform other tasks such as moving heavy furniture, laying rugs, shoveling snow Floor care for both resilient tile and wood including cleaning

Cleaning such as washing windows and walls

III. WORKING CONDITIONS:

Work alone or around others in tenant apartments or in other inside areas of building
Work outside in courtyard, driveway or sidewalk in all kinds of weather
Be subject to falls from ladders or scaffolds or down shafts
Be subject to strains from heavy lifting, cuts from sharp edges and shocks from electrical equipment

IV. JOB REQUIREMENTS:

Be able to follow instructions and established procedures

Move arms, hands and fingers skillfully in munipulating tools and materials

Learn new methods and ideas easily

Make decisions and use good judgement in handling emergencies

Be able to stand and walk for long periods of time

Have full use of arms, hands, and fingers

Be able to turn, bend, stoop, kneel, crouch and move about easily to make repairs

Be able to lift up to 100 pounds

Have good vision and hearing (normal or corrected)

Be able to distinguish colors

May be required to work weekends and holidays

Subject to call in emergencies

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VI. BASIC SKILLS AND KNOWLEDGE:

Have ability to use hand tools Interest in basic construction and

VIL JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Read, write and speak English sufficiently well to communicate with tenants and follow in-

Math: Should be able to measure and do basic arithmetic

Verbal: Be able to communicate with tenants

Written:

ADDITIONAL JOB INFORMATION:

1) Disadvantages:

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2) Advantages:



3) Training opportunities: Start as a porter or general helper and complete on-the-job training of 1 years

IX. EVALUATION: As determined by teachers

HEALTH/MEDICAL, PERSONAL SERVICE OCCUPATIONS

OCCUPATIONAL READINESS CENTER

COURSE: HEALTH/MEDICAL, PERSONAL SERVICE OCCUPATIONS

UNITS:

First Quarter:

"Ward Clerk

Nurse Aide/Orderly

Orderly

Hospital Tray Girl

Hospital Housekeeper-Laundress

Day Care Center

L.P.N. loccupation reviewed with

selected students)

Home/Health Attendant

Personal Service Occupations

Hotel/Motel Housekeeping Aide Institutional Housekeeper Aide

Second Quarter: Same as First Quarter.

<u> Third Quarter: Same as First Quarter.</u>

Fourth Quarter: Same as First Quarter.

Trade: Health/Medical, Occupations

I. JOB TITLE: Ward Clerk

II. JOB DUTIES:

Prime - Answering telephones

Directing non-employee traffic
Serving as a receptionist

Others - Loading and unloading telelift not handled by S.P.D.
Returning telelift
Monitoring activities in solarium
Processing nursing unit manitenance
Problems to engineering
Turning charts for discharges
Calling transportation within hospital

ADMISSIONS:

Take admission on phone from the Admitting Office.

Prepare name band and card for patient's bed

Make card for cardex

Prepare the chart

Keep bed chart up to date

Notify admitting of any bed changes

DISCHARGES:

Call in discharges to Admitting Office
Assemble chart and check for notes needed (after patient leaves)
Enter discharges on daily census sheet and daily report

REPORTS:

Enter admissions after patient is received on floor
Enter transfers to or from floor after transfer is made
Enter discharges on report after the patient has left the floor
Enter the name of the patient for Operating Room x-ray lab
Enter the time that the patient left for O.R. (Operating Room),
x-ray Lab and the time patient returned.

DAILY CENSUS SHEET:

Enter admissions, transfers, discharges after they have been executed Put name card on chart holder

III. WORKING CONDITIONS:

Work weekends, holidays, evenings and rotating shifts

IV. JOB REQUIREMENTS:

Be 17 years of age
Minimum of 8th grade education
Undergo medical examination
Have good vision and hearing (normal or corrected)
Have good physical and mental health
Be able to distinguish colors

V. JOB CONDITIONS:

Determined by field trips, guest speakers, etc.

VI. BASIC SKILLS & KNOWLEDGE

Pay attention to detail and follow instructions carefully
Be able to work under pressure
Be willing to follow prescribed procedures carefully
Be accurate in record keeping



Title: Health/Medical Occupations

Be willing to work under close supervision and to perform a variety of routine tasks.

VII. JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Must have good reading skills to record/read charts, etc.

Math: Must be able to compute accurately. Should know four processes

of math

Verbal: Must be able to understand instructions and communicate with

hospital personnel.

Must have good telephone skills

Written: Must have good clerical skills in order to file, record etc.

ADDITIONAL JOB INFORMATION:

1. Disadvantages: May have to work weekends, holidays, nights, and rotating shifts.

2. Advantages: Good employment outlook

Good fringe benefits

Good salary/compensates with training

3. Training Opportunities: On the job/Vocational Schools

IX. EVALUATION:

As determined by team of teachers In hospital determined by supervisor in charge OCCUPATION: Ward Clerk

NO. 1

· *	· ·		P	
LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER SUPPLIES
To understand the role of the Ward Clerk as part of the Nursing Team To be aware of hospital terminology and routine To be aware of hospital policy and procedure To understand the import- ance of hospital ethics To be able to communi- cate verbally with hospital	Discuss role of the Ward Clerk Discuss hospital terminology and routine Discuss hospital policy and procedure Discuss the importance of hospital ethics Communicate by tele- phone and role playing Calling departments with-	Census sheets Telephone Hospital charts Telelift	VOCABUALRY Admitting Office Cardex Daily Census Sheet Daily log Confidential Intensive Care Unit - I.C.U. Operating Room Coronary Care Unit C.C.U.	"Being A Nursing Alde" Hospital Research and Ed. Trust Teacher Made MaterialsDiagramsOutlinesWorksheets
cate verbally with hospital personnel and visitors To be able to perform clerical and related duties	in hospital Locating doctors and nurses Answering telephone and directing calls Prepare name band, name cards for patient, prepare chart, enter discharges on daily census sheet, enter admissions, distribute mail to patients, copy time slips, daily weekly, prepare passes		Business Office Medical Floor Surgical Orthopedic Geriatric Psychiatric Laboratory x-ray Admitting Office Emergency Room Recovery Room	
**	for patient and keep bed chart up to date		Morgue Autopsy Diet Kitchen Obstetrics Inhalation Therapy Pediatrics	
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Trade: Health/Medical Occupations

I. JOB TITLE:

Nurse's Aide

II. JOB DUTIES:

Answering signal lights to ascertain the patient's needs Bed making: closed, open, occupied and post-operative beds Bathing the patient: Bed bath, tub, shower and sitz bath Dressing and undressing patients Assisting with feeding the patient necessary Being responsible for passing extra nourishment and fresh water Moving and transporting patients Positioning the patient properly Providing comfort devices for the patient as instructed (Lambs wool, protective pads, air matress, water bed) Assisting with oral hygiene Giving back rubs and change linen as necessary Recording fluid intake and output Taking and recording temperature, pulse and respiration Giving enemas: foil, tap water and fleets Collecting urine and stool specimen Collecting, testing diabetic urines and recording the results Giving and removing bedpans and urinals Assisting patients in and out of bed Assisting with pre-operative care Shaving local skin areas pre-operatively Assisting with post-mortem care

III. WORKING CONDITIONS:

Work in a hospital environment

Be aware of the realities and responsibilities of clinical experience

To be prompt, dependable and have good attendance

Most jobs require some work on Saturdays, Sundays, holidays, evenings and rotating shifts

IV. JOB REQUIREMENTS:

Read, write and speak English

Be 17 years of age or over

Minimum 8th grade education - High School preferred

Pass a medical examination

Have good vision and hearing

Ability to distinguish colors

May be finger printed according to the agency

Be able to read thermometers, timing devices and simple gauges

V. JOB CONDITIONS:

Determined by field trips, guest speakers, films and lectures

VI. BASIC SKILLS AND KNOWLEDGE:

Be empathetic and tactful in patient relationships

Be able to follow instructions and perform established procedures

Be prompt and report accurately all observations related to patient care

VII. JOB PRACTICE:

Laboratory experience

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Trade: Health/Medical Occupations

VIII. ACADEMIC DEMANDS:

Reading: Must be able to read instructions; simple gauges; and

thermometers

Math: Must be able to add, multiply, subtract, divide and work with

simple fractions

Verbal: Must be able to communicate with patients, visitors, doctors and

understand the instructions of team leader.

Written: Be able to record vital signs such as temperature, pulse and

respiration

ADDITIONAL JOB INFORMATION:

1. Disadvantages: Work schedule and hours may vary from week to week

Shifts may rotate

Necessity of working nights, weekends and holidays

2. Advantages: Good fringe benefits

High demand for workers

3. Training Opportunities: On the job Vocational schools

OCCUPATION: Nurse Aide/Orderly

LEARNING GOALS ... To identify the Nurses Aide's responsibility to herself, patient and team ... To be aware of basic human, anatomy and physiology To be aware of forms of organisms ... Understand the importance of cleanliness and asepsis in health care field Learn how to make discharge pack ... How to make closed bed How to make open bed ... How to make the occupied bed ... How to make post-operative bed ... Learn how to give patient ... To understand the importance of oral hygiene ... To learn how to give patient bed pan To learn how to give back rub To learn how to give bed bath To understand the importance of good body mechanics and safety precautions To understand concept of vital signs ... To understand the important aspects of the patients charts

... To understand the importance

... To understand correct technique of weighing measuring the

of accuracy in measuring

LEARNING ACTIVITIES
Classroom discussion, role-
playing, viewing of films
Showing of films, pictures,
charts and by teacher lecture
Listing and describing portals
of entry
Handwashing
Cleaning of hospital units
Assembling linens
Making the bed
Making the open bed
(Demonstrate and practice) .
Making the occupied bed
Make the post operative bed
Wash patients' face and hands
Roushing the patients' toeth
Giving and removing the bad
pan
Give back rub
Give bed bath, dressing and
undressing patient
Correct posture for lifting.
Moving patient up in bed, turning patient from side to side,
assisting patient from bed to
chair, assisting patient from bed
to stretcher. Moving conscious
and unconscious patient.
Transporting patient
Demonstration and practice
of correct procedure of reading
and use of clinical thermometers
Demonstrate and practice
charting temperature
Demonstrate and practice of
counting and recording pulse
and respiration
Learn parts of the charts
and its significance

	TOOLS, EQUIPMENT SUPPLIES
Т	Film Strip
ł	Projector
I	Cassette player
١	Charts
١	Mouth, nose, skin, rectum, va-
١	gina, ears
1	Soap and warm water, paper
١	towels, waste basket, lysol basin,
- 1	newspaper, cleaning cloths
	Bedpan ,
	2 large sheets
ł	I draw sheet:
	Blanket
	Spread
	Pillow
	Pillowcase
	Towel, washcloth
	Hospital gown
	Daily Pack:
	2 large sheets
	I draw sheet
	Pillowcase
	Towel, wash cloth and gown
	Linen - same as for open bed
	Wash basin
~	Fmesis basin, cup, toothpaste,
	toothbrush, mouth wash, water
	Bed pan, toilet tissue
	Lotion
	Basin, bath, blanket, screen, bathrobe, slippers
	Thermometers, oral and rectals

NEW TERMINOLOGY MATH Appearance Ethics Maturity Emotions & Self-Understanding Interpersonal relationships Religion Consideration Education Interaction Individuality Responsibility Tact Privacy Legality · Adequate responses Skin Skeleton Digestive Muscular Nervous Respiratory Circulatory **Endocrine** Reproductive Germicide, Sterilize Asepsis, Disinfect, discharge, draw sheet, correct method, comfortable Occupied Post operative Stretcher Basin Oral hygiene

TEXT. WORKBOOKS OTHER SUPPLIES Filmstrip/Cassette Program Ethics for the Nursing Assistant Nursing Staff Oral Communications Maintaining A Clean Environment Careers in Health Services Parts I and 2 Medical Asepsis Occupied Bed Making Bed Bath Observation and Charting Temperature, Pulse, Respiration Feeding the Patient Blood Pressure Admission & Discharge Lifting & Moving Patients Orientation: Joining The Health Care Team Transfer & Ambulation Pre-operative & Postoperative Care Positioning to Prevent Complications Respiratory System . Skeletal & Muscular Systems Use of Patient Lifter

Films - NYS Health Dept.
Mrs. Reynolds Needs a Nurse
Almost A Miracle
Handwashing in Patient Care
Nursery Sepsia
View From The Mountain
Sterilization Procedures For
The Medical Office
Children in the Hospital

NO. 2 (Continued)

OCCUPATION: Nurse Aide/Orderly

	•			
LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER SUPPLIES
patient	Demonstrate and practice	thermometer holders	Emesis	Fire and Your Hospital
To understand the importance	measuring and recording Intake	Cotton balls	.	Cost of Hope
of nutrition	and Output. Adding amounts	Lubricant	Feces, evacuate stool, vold,	Role of Nursing in Infection
Of Hattipon	Demonstrate and practice	Watch with 2nd hand	defecate, urine	Control
	weighing, measuring the patient,	Pad and pencil	,	Bright Future
	recording results on chart	Tissues	Massage	Challange to Serve
	Demonstrate and practice	1	Rotary motion	Diary of Connie McGregor
•	feeding the helpless patient.	Chart	Circularion .	I Am Joe's Heart
\	Students will work in teams		Bed sores	
1	The student patient will have	Calibrated	Decupitus	Films-BOCES Library
	her eyes covered with eye pat-	Pitcher or cup		Hemo, the Magnificent
•	ches while being fed by student	Intake and output sheet	Pravacy, protection, observe	About Your Body
,	nurse.			Parts I & II
	, , , , , , , , , , , , , , , , , , ,	Scale	Posture	I Am Joe's Spine
		1	Alignment	Digestion in our Bodies
•	t	Menus	Balance	Heart, Lungs & Circulation
•		Tray	Strain	Infectious Diseases
		Dishes	Spine	Muscles & Bones of the Body
2		Flatware	Assist	Understanding Your Body
	·	Food	Wheel chair	The Incredible Voyage
	•	Glasses		
	,	Napkins	Comatos	8mm Film Loops
		Straws	Conscious	Lifting The Patient From &
	,	Beverages	Unconscious	To Bed
			. Alert	Bathing The Patient in Bed
	,	1 '	Oriented	Parts 1 & 2
			Muscles	Oral Hygiene - Patient Who
•	•		Body mechanics	Can Help
~ - 4	•	<u> </u>		Oral Hygiene - The Helpless
į	•		Thermometer	Patient
	,	ł	Vital signs ⁵	Lifting & Moving The Patient
	,		Temperature	in Bed
			Pulse	Bedmaking with Clean Linen .
			Respiration	Parts I & II
	•	·	Radial	Pressure Areas
·		1	·Variations	
4 - 4	•		Regtal .	Teacher Made:
151	•		Oral	I. Worksheets
·	•	1	Quzillary	2. Outlines
0	•		1	
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COURSE: Health/Medical Occupations

OCCUPATION: Nurse Aide/Orderly

NO. 2 (Continued)

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER SUPPLIES
			Quality Rate Inspiration Expiration Variations Discharge Admission Kaboratory Physical Doctor's order sheet History Information Legality Graphic sheet Accurate Fluids Types Liquids Intake Output Calibrated	3. Diagrams 4. Cassettes 5. Slides 6. Transparencies 7. Forms 8. Evaluation Materials
·	. E		Measure Weight pounds Inches	•
	153	,	Regular diet Soft Mechanical soft Low residue Diabetes diet Ulcer diet Salt-free diet Bland Dentures Dietician	154
ERIC.			Liquids	

OCCUPATION: Nurse Aide/Orderly

NO. 2 (Continued)

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH Vitamins	TEXT, WORKBOOKS OTHER SUPPLIES
		SOFFLIES	Vitamins Protein Constipation Dehydration Clockwise	OTHER SUPPLIES
•		•		
•			•	
		•		
•				··· /-
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Trade: Health/Medical Occupations

I. JOB TITLE: Orderly

II. JOB DUTIES:

Take and record temperature, pulse and respiration
Bathe patient (bed, tub, shower)

Measure patients' fluid intake and output
Collect routine specimens
Apply hot and cold applications, compresses, ice packs, etc.
Give enamas to selected patients
Assist with physical examination, application and change of simple dressing, splints, casts
Set up equipment such as oxygen, traction and portable x-ray
Perform routine urine test for sugar and acetone
Clean and sterilize instruments and equipment
Assist patient to dress and undress and get in and out of bed
Transport patient on invalid chairs or wheeled stretchers

Apply restraints and side rails on bed

Serve, carry and collect focd trays, and assist in feeding patients

Make and unmake beds
Dispose of soiled linens

Requisition, distribute, check and put away supplies

III. WORKING CONDITIONS:

Working hours include Saturdays, Sundays and holidays, evenings and rotating shifts

Work with and around others under usual hospital conditions

Be subject to cuts from sharp instruments and infections from soiled materials

Be exposed to occasional disagreeable odors and sights Be subject to strains from moving and lifting patients

IV. JOB REQUIREMENTS:

Be 17 years of age

Speak, read, and write English

Minimum of 8th grade education

Have recent, checkable references

Be able to read simple gauges and timing devices

Be fingerprinted

Undergo medical examination (no extremes in weight)

Be able to stand and walk about for long periods of time

Be able to lift, push and pull patients from stretcher to the operating table

Be able to handle instruments and equipment carefully

Have good vision and hearing (normal and corrected)

Be able to distinguish colors

Have good physical and mental health

V. JOB CONDITIONS:

Determined by field trips, guest speakers, etc.

VI. BASIC SKILLS AND KNOWLEDGE:

Move arms, hands and fingers rapidly and accurately
Learn and apply techniques of patient care
Manipulate small objects
Pay attention to detail and follow instructions carefully
Have a desire to help others
Be able to work under pressure
Be sympathetic and tactful in dealing with patients; and staff
Be able to react quickly



Trade: Health/Medical Occupations

Be willing to follow prescribed procedures carefully

Be willing to work under close supervision and to perform a variety of routine tasks

VII. JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Must be able to read charts, thermometers, etc.

Math: Must be able to tell time, count accurately and know

fractions and measurement.

Verbal: Must be able to understand instructions and communicate

with patients.

Written: Be able to record vital signs such as temperature, pulse, etc.

ADDITIONAL JOB INFORMATION:

1. Disadvantages: May have to work weekends, holidays, nights and rotation

shifts .

Work involves unpleasant sights
Subject to strains from ligting patients

Work schedule and hours may vary from week to week

2. Advantages: Good fringe benefits

High demand for workers.

3. Training Opportunities: On the Job-Vocational Schools

IX. EVALUATION: As determined by team of teachers

COURSE: Health Medical Occupation

OCCUPATION: Orderly

LEARNING GOALS	` LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER SUPPLIES
To recognize the import-	See Ward Clerk	See Ward Clerk	See Ward Clerk	See Ward Clerk
ance of desirable qualities in		1		
their relation with patients	Demonstrate and practice:	Stretcher	Alignment	Filmstrips & Cassettes
and others	a) Correct posture for lift-	Wheel Chair	Ambulatory	Careers In Health Services
To understand the role	ing	Robe	Axillia	1
of the nurse's aide in the	b) Moving a patient up in	Slippers	Bed Sore	Film Loops
nursing team	bed	Foot Stool	Comatose	Lifting and Moving the Pat-
To be aware of basic	c) Moving a patient from	Hamper	Unconscious	ient, Encyclopedia Britannica
human anatomy	bed to stretches	Screen	Coma	The Helpless Patient,
To be aware of diseases,	d) Assisting patient from	· Thermometer	Fracture -	Encyclopedia Britannica
infections, etc.	bed to chair	Watch with Second hand	Strain .	The Patient Who Can Help
To identify items in a	e) Turning the patient	Germicide ,	Posture	Encyclopedia Britannica
patients unit	Practice moving the con-	Oversized thermometer	Leverage `	The Occupied Bed
To recognize the import-	scious patient	Patient charts	Balance	Encyclopedia Britannica
ance of learning a patients .	Practice moving the com-	Pen	Precautions	Bed Bath
unit	atose	Pencil	Sterile	Encyclopedia Britannica
To assemble the different	Practice making bed with	Thermometer holder	Mercury ,	
hospital packs	patient in it	Basin with Warm Water(110)	Rectal	Field Trips
To understand importance	Reading a thermometer	Soap		Westledge Nursing Facility
of Cleanliness in the health	Using a second hand on a	Rubbing alcohol	Oral .	Northern Westchester Hospit-
7 =	watch	Lotion	Antiseptic	a
care institution	Counting pulse and respir-	Bath powder	Respiration	Putnam Community Hospital
To be familiar with the	ation and recording on pat-	Bath Blanket	Fever	
principles of disinfection and	lent's chart	Toilet Articles	Temperature	Guest Speakers
sterilization.	Taking and recording pat-	Bedpan-	Pulse	Nurses
To understand the import-		Toilet Paper	Inhalation	
ance, correct procedure and	ient's temperature	Rolling Cart	Exhalation	1
times for washing hands	Demonstration and prac-	Pitchers	TPR	Ì
To be able to make a	tice giving a bed bath	Ice	Vital Signs	
closed and open bed	Volunteer work in a	Water	Pendulous	İ
To know how to lift, move	hospital	1 0	Ilmbillare	1
and transport a patient	Demonstration and prac-	Straws .	Defecate	1
To become familiar with	tice in giving the bedpan	Various measuring	Feces	i
the correct procedure used to	Demonstration and prac-	1	Urin•	i
move a patient in bed	tice undressing and dressing	Tray	Incontinent	j
To be able to make the	Demonstration and prac-	Flatware	Publc	
occupied bed "	tice of a backrub	Dishes	Spinal Cord	•
To be able to take and	Demonstration and prac-	Napkins	Circulation	
record a patient's tempera-	tice feeding the helpless pa-	Food	Dentures	1
ture, pulse, and respiration	tiont -	Menus	Dantaias	1.0
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Full Text Provided by ERIC			23	i

COURSE: Health Medical Occupation

OCCUPATION: Orderly

NO. 3 (Continued)

LEARNING GOALS	LEARŇING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER SUPPLIES
To understand normal and abnormal temperature, pulse and respiration To understand the correct procedure for giving a bed	Role playing		Circular Motion Dehydration / Constipation Intake Output	·
bath To be familiar with giving the bedpan To become acquainted with the procedure for dress- ing/undressing the helpless patient			MATH Fractions Decimals Time Multiplication	·
To understand how to give a backrub To understand the correct procedure for distributing water and its importance To learn how to give morn- ing and evening care To become familiar with fluid measurement To know how to feed the helpless patient				
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Trade: Health Medical Occupations

I. JOB TITLE: Hospital Tray Girl

II. JOB DUTIES:

Sets up trays for patients and may serve them

Lines trays up in proper order for delivery and pushes carts to

serving areas

May aslo help set up service counters in cafeteria's for hospital

personnel

May also do dishwashing

Preparing beverages

Clearing of trays

Cleaning table tops in patients' dining room

Performs any other duties which the cook or assistant cook may assign

III. WORKING CONDITIONS:

Work weekends, holidays and rotating shifts

Must be able to work under pressure if necessary

Must be able to work under close supervision

Handles utensils and table ware

Pushes and pulls food trays and carts

Stands and walks most of time on duty

Stoops, reaches for, lifts, and carries relatively light equipment and

materials

IV. JOB REQUIREMENTS:

Must be over 18 years of age to work in city hospitals

Must pass physical examination

Must have some high school education

A neat, clean appearance is required

Need courtesy and tack in dealing with patients

cooperation with other employees

Ability and willingness to perform repetitive tasks on a continuous basis

Some initiative and judgment involved in planning own work to meet meal

schedules

Works under close supervision

Performs duties which are well standardized

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VI. BASIC SKILLS AND KNOWLEDGE:

Setting up trays and setting tables

VII. JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Be able to read a menu

Math: Be able to recognize numbers

Verbal: Be able to follow instructions

Written: Job duties do not require written communication

ADDITIONAL JOB INFORMATION:

1) Disadvantages: Early hours

Different and rotating shifts

2) Advantages: Clean pleasant working conditions



Trade: Health Medical Occupations

3) Training Opportunities: On the Job

IX. EVALUATION:

As determined by team of teachers

COURSE: Health Medical Occupations

OCCUPATION: Hospital Tray Girl

LEARNING GOALS To become acquainted with the procedure used to prepare hospital trays	LEARNING ACTIVITIES Practice preparing various hospital trays Study and learn the four basic food groups Study and learn the six basic nutrients Study and learn what a soft, liquid, diatetic, salt free, and regular diet contain Choices of assingments for motivation, evaluation and acquiring additional knowledge and skills of the Tray Girl	Menus Trays Flatware China Glassware Napkins Scoops Food Plastic food Cardboard food Warming covers Tray covers	Table service Protein Vitamins Minerals Soft diet Liquid diet Regular diet Salt free diet Diatetio diet Fats Diet Calorie Carbohydrate	TEXT, WORKBOOKS OTHER SUPPLIES How to be a Nurse's Aide in a Nursing Home Dorothy Erickson Reese, H.E.W. Being a Nursing Aide Robert J. Brady Co. Marie Perrone, Practical Nurse, Lillian Lerner, Margaret Moller Manual for the Nurse's Aide Delmar SRA Brief-Tray Girl Being a Food Service Worker Hospital Research and Educational Trust Sample Hospital menus Teacher Made Materials Guest Speakers Nurses Field Trips Northern Westchester Hospital Mount Kisco Putnam Community Hospital Carmel Westledge Nursing Facility Charts 4 Basic Food Groups Esmily Circle
•		. *	,	Family Circle
ERÎC'	165		156	

Trade: Health/Medical Occupations

I. JOB TITLE: Hospital Housekeeper

IL. JOB DUTIES:

Check room for articles left

Strip and make up beds

Collect soiled towels and put out clean ones

Remove shower curtain

Clean medicine cabinets, shelves and mirror

Shine faucets, scrub bathtub, put up new shower curtain,

soap and glass.

Scrub floor

Empty wastebasket and ashtrays

Remove soiled paper linings from drawers and closet shelves;

replace with clean paper

Vacuum rug

Dust all furniture and furnishings

III. WORKING CONDITIONS:

Pleasant, clean, rushed on occasion Saturday, Sunday and holiday work Stand, bend or stoop most of the time

IV. JOB REQUIREMENTS: /

Good use of English

Neat and efficient appearance

Pleasant personality
No experience necessary
Possible union membership

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VI. BASIC SKILLS AND KNOWLEDGE:

How to use vacuum cleaner

How to wax wood furniture and clean painted baseboards

How to make beds How to clean bathrooms

VII. JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Be able to read directions on various disinfectants.

abrasives, deodorants, polishes and pesticides.

Math: Be able to compute quantities to determine proportions of

various cleaning agents to water.

Verbal: Be able to follow instructions and communicate with fellow

employees.

Written: Be able to complete a supply and reapir sheet.

ADDITIONAL JOB INFORMATION:

1) Disadvantages: Work weekends and holidays.

May be exposed to unpleasant sights and odors

2) Advantages: Usually no evening shifts

osuany no evening smrts

Trade: Health [Medical Occupations

May be promoted to head housekeeper or with some sewing background, to linen room repair.

3) Training opporutnities: On the Job-Vocational Schools

IX. EVALUATION:

As determined by team of teachers.

OCCUPATION: Hospital Housekeeper

NO. 5

LEARNING GOALS To become familiar with the procedure used to clean the different areas of the hospital To understand the importance of cleanliness to eliminate rodents and other hospital pests	LEARNING ACTIVITIES Daily care of patient's room and bathroom Daily care of halls, etc Choice of assignments for motivation, evaluation and acquiring additional knowledge and skills	Pall Mop Duster Dust mop Cleaning solutions Pesticides	NEW TERMINOLOGY MATH Disinfectant Sterilize Germicide Antiseptic Pesticide Rodent	TEXT, WORKBOOKS OTHER SUPPLIES How to be a Nurse's Aide in a Nursing Home Dorothy Erickson Reese, H.E.W. Being a Nursing Aide Robert J. Brady Co. Manual for the Nurse's Aide Delmar
				Field Trips Northern Westchester Hospital, Mount Kisco Putnam Community Hospital Carmel Westledge Nursing Facility Teacher Made Materials Worksheets Forms Outlines Transparencies Film Strips & Cassettes Housekeeping Orientation Safety in Housekeeping Bacteria Control Hospital Floor Care Custodial Duties Hospital Carpet Care
16	9			170

Trade: Health/Medical Occupations

I. JOB TITLE: Hospital Laundress

IL. JOB DUTIES:

Wash and dry clothes
Separate white from colored

Set water temperature, add detergent, disinfectants, bleaches

Time drying cycle

Keep accurate count of articles

Fold or send to ironers

Sort according to department

Marking items

Feeding items into the flat ironer

III. WORKING CONDITIONS:

On feet most of day Work in hot area

IV. : JOB REQUIREMENTS:

Health test required

Basic qualifications needed are speed, good co-ordination,

and manual desterity

Some mechanical aptitude and ability Physical strength and endurance

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VI. BASIC SKILLS AND KNOWLEDGE:

VII. JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: May be required to read directions and instructions

Math:

Verbal: Be able to follow directions

Written:

ADDITIONAL JOB IN PRMATION:

l) Disadvantages: Work in hot area

Work a 6 day week

Usually start early in the morning

2) Advantages: Part time work available

3) Training opportunities: On the Job-Vocational Schools

IX. EVALUATION:

As determined by team of teachers

NO. 5

OCCUPATION: Hospital Laundress

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER SUPPLIES
To be able to do hospital laundry	Operate various machines used in doing laundry Practice by doing all laundry used in lab Choices of assignments for motivation, evaluation and acquiring additional know- ledge and skills for the	Washing machine Dryer Mangle , Detergent Bleach	Detergent	How to be a Nurse's Aide in a Nursing Home Dorothy Erickson Reese H.E.W. Being a Nursing Aide Robert J. Brady Co. Manual for the Nurse's Aide Delmar
	Laundress	·		Field Trips Northern Westchester Hospital, Mount Kisco Putnam Community Hospital Carmel Westledge Nursing Facility Teacher Made Materials
,				
•				
	172			173
ERIC Palata Newsday 1 PE	,			

Trade: Health/Medical Occupations

I. JOB TITLE: Day Care Center Aide

H. JOB DUTIES:

Help children remove outer garments Participate in games, read to children

Help with simple painting, drawing, handwork, songs and

similar activities

Assist children in eating, resting and toileting

Help children develop habits of caring for own clothing and

picking up and putting away toys and books

Maintain discipline

Serve food and regulate rest periods

Observe children for signs of illness, fatigue and over-stimulation

Keep records

Take children on short trips

III. WORKING CONDITIONS:

Work with and around children and other adults in well-lighted and ventilated play rooms.

Outdoors in restricted play areas during pleasant weather

IV. JOB REQUIREMENTS:

Be able to sit, stand and move around easily
Be free of any severe disfigurements
Have a pleasant speaking voice with no speech impediments
Pass chest x-ray examination given by Health Department.
Have a driver's license

V. JOB CONDITIONS:

Determined by field trips, guest speakers, etc.

VI. BASIC SKILLS AND KNOWLEDGE:

* Have full use of arms, legs, hand and fingers

Be able to distinguish colors

Read, write and speak English

Be able to assist in teaching children play and musical activities which contribute to their development

VII. JOB PRACTICE:

Shop and laboratory experience Volunteers in nursery classes

VIII. ACADEMIC DEMANDS:

Reading: Able to read childrens' books

Able to read records and forms

Math: Time sheets and hourly rates

'Verbal: Able to communicate well with children and parents

Able to communicate with other workers

Written: Able to keep records and fill out forms

ADDITIONAL JOB INFORMATION:

1) Disadvantages: Some children's behavior problems disrupt classwork

and parents often fail to cooperate in remedying.

Physical work involved in lifting, etc. is often very tiring

2) Advantages: May receive good fringe benefits

Trade: Health/Medical Occupations

Working mothers may be able to work split shifts Employment outlook is good

3) Training Opportunities: On the Job-Vocational Schools

IX. EVALUATION:

As determined by team of teachers

NO. 6

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OCCUPATION: Day Care Center Aide

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT. WORKBOOKS OTHER SUPPLIES
To understand the value of nursery school To be aware of the needs and interests of the one to	Plan the day by day ac- tivities of a Day Care Center and list them Work in a Day Care Center	Childrens toys Arts and crafts supplies a) paint b) paint brushes	Constructive discipline Introvert Extrovert Peers	The Developing Child Chas. A. Bennett Co. Living and Learning With Child- ren, Houghton Mifflin Co.
five year old To understand the importance of the different activities in a Day Care Center To become adapt at being	program Evaluate and improve the program Selected students to act as volunteers in head start	o) paper Outdoor play equipment Record player Records Film projector	Sibling Competition Motivation Incentive Flannel graph	FILMS All of the following films are obtained from New York State Health Department:
aware of safety in the Day Care Center	and kindergarten programs Observe films, discuss and write an evaluation of them Choices of assignments for	Childrens films Fre-school children	Jealous Development	Safety on the Play Ground A.B.C. of Babysitting To a Babysitter You're in Charge
,	motivation, evaluation, and acquiring of additional knowledge and skills of the Day Care Center Aide	,	,	The Toddlers Hours of Hazard Answering the Childs Why Children Growing Up With Other People
	Observe filmstrips and com- plete teacher made dittos for each	,		Children Learning by Experience Children's Emotions Children's Play
		,		Tears of Children The Frustrating Fours and Fas- cinating Fives He Acts His Age
				Helping the Child Accept The Do's Shyness
		:		Helping the Child Accept The Don'ts Meal Time Can Be a Happy
•	:			Time Principles of Development The Terrible Two's and Trusting Three's
ŕ				Understanding Children's Play Food As Children See It
·	, , , ,		,	FILMSTRIPS All of the following are from

· COURSE: Health Medical Occupations

OCCUPATION: Day Care Center Aide

NO. 6 (Continued)

· LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATU	TEXT. WORKBOOKS OTHER SUPPLIES
· .				McGraw-Hill Book Co.: Special Daytime Problems Getting Acquainted Keeping Children Safe Keeping Children Happy Selecting Children's Clothing
				Selecting Children's Toys Teaching Desirable Habits
		*		FILMSTRIPS/CASSETTES The Child Care Worker Encyclopedia Britannica Baby Sitting
				FILMSTRIP/RECORD/BOOK Understanding Your Child Ages 1-5 Keeping Children Safe Keeping Children Happy Special Daytime Problems Getting Acquainted Teaching Desirable Habits
	•	,		FIELD TRIPS Nursery Schools Elementary Schools
• •				B.O.C.E.S. Professional Library- Arts and Crafts Books
173	g	^		Teacher Made Materials Arts & Craft Projects Forms Transparencies Worksheets Evaluation Materials
ERIC				179

Trade: Health Medical Occupations

L JOB TITLE: L.P.N.

II. JOB DUTIES:

Take and record temperature, pulse, respiration and blood pressure of patients

Assist in bathing, walking and feeding patients

Preparation and care of patients receiving specialized treatment by

physician or registered nurse Preparation and care of equipment

Give selected medications such as cathartics, aspirin, vitamins, insulin, and sedatives

Give injections as prescribed

Observe, record, and report patient's condition

Application of simple dressings, hot and cold packs, ice bags

Under supervision, keep patients recovering from anesthesia or receiving infusions under constant observation

Notify physician or registered nurse of any changes or unusual reactions in patients

Administer first aid measures in emergency situations

III. WORKING CONDITIONS:

Work with and around others under usual hospital conditions
Have to travel and work in homes under a variety of conditions in
performing private duty care
Be exposed to communicable diseases
Be subject to possibility of cuts from instruments, burns from sterilizers
and infections from soiled materials
Be exposed to disagreeable odors and unpleasant sights
Be subject to possible strains from moving and lifting patients or

IV. JOB REQUIREMENTS:

Meet the requirements for a New York State License as follows:

Be able to pass aptitude test

Be at least 18 years of age

equipment

Be of good moral character .

Be a U.S. citizen or have entered the country legally as a permanent resident

Have completed a course of study and hold a certificate of a school approved for licensing giving a course in this occupation of not less than 9 months

Pass the New York State licensing examination

Speak, read, and write English sufficiently well to absorb training, communicate with patients and staff

Undergo medical examination and be fingerprinted prior to employment Have non-allergenic skin

Have good vision hearing (normal or corrected)

Be able to stand and walk for long periods of time

Be able to lift and move patients to and from bed, with assistance

Be able to handle delicate instruments and equipment

Be able to distinguish colors

Have good physical and mental helath

Be able to handle emergency situations

Be able to work under supervision and perform a variety of routine tasks Be willing to follow prescribed procedures carefully and completely with realization that errors may have serious consequences for patients

Be sympethetic and tackful in dealing with patients

ERIC

Trade: Health Medical Occupations

V. JOB CONDITIONS:

Determined by field trips, guest speakers, etc.

VI. BASIC SKILLS AND KNOWLEDGE:

Learn and apply technical training

Move hands and fingers rapidly and accurately to manipulate small

objects

Follow instructions and established procedures carefully

VII. JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Be able to read and understand scientific information

Math: Knowledge of measurement, time, temperature

Verbal: Be able to understand and communicate with staff and patients

Written: Be able to record and report on all aspects of the patient's

condition

ADDITIONAL JOB INFORMATION:

1) Disadvantages: Work on weekends, holidays and rotating shifts

is often required.

Exposure to communicable diseases

Possible strains from moving and lifting patients

and equipment

2) Advantages: Part time work is available

May be employed in a variety of places such as hospitals,

nursing homes, old age homes, private homes, etc.

Good fringe benefits

Uniform allowances, lodging and meals

3) Training Opportunities: Schools approved by the state to issue licenses

IX. EVALUATION:

As determined by team of teachers

COURSE: Health Medical Occupations

OCCUPATION: L.P.N. (Occupation Reviewed with Selected Students)

NO. 7

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LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATII	TEXT, WORKBOOKS OTHER SUPPLIES
See Nurse Aide	See Nurse Aide	See Nurse Aide	See Nurse Aide	See Nurse Aide
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ERIC •				

Trade: Health Medical Occupations

I. JOB TITLE:

Health Attendant

II. JOB DUTIES:

Change bed oinens, wash and iron patient's laundry and clean the room Buy food and prepare and serve meals for patients and other family members following diets

Assist patient into and out of bed or wheel chair

Assist patient up and down stairs

Assist patient and/or children in bathing and dressing

Massagé patient and apply non-medical preparations and treatments such as liniment or alcohol rubs

Take and record temperature, pulse and respiration rate under professional direction

Keep record of food intake and output

Accompany ambulatory patient dutside home, serving as companion and aid Entertain patient in such ways as reading aloud, playing cards or other games

III. WORKING CONDITIONS:

Travel to patient's homes in all kinds of weather

Be exposed to communicable diseases and infections from soiled materials

Be exposed to disagreeable odors and unpleasant sights

Be subjected to possible strains from lifting and moving

IV. JOB REQUIREMENTS:

18 years of age or over

Speak, read and write English sufficiently well to communicate with patient and family members, take phone messages and keep simple records

Be able to cook plain meals

Provide own uniform

be in good physical health

V. JOB CONDITIONS:

Determined by field trips, guest speakers, etc.

VI. BASIC SKILLS AND KNOWLEDGE:

Follow instructions in doing assigned work
Pay attention to details in planning daily schedule
Handle and manipulate household equipment
Be able to stand and walk for long periods of time
Be able to lift

VII. JOB PRACTICE:

Shop and laboratory experience

VIII, ACADEMIC DEMANDS:

Reading: Be able to read instructions

Math: Must be able to

Must be able to tell time, count accurately, and know

fractions and measurement

Verbal: Be able to communicate with patients

Written: "Be able to keep records and write reports

ADDITIONAL JOB INFORMATION:

1) Disadvantages: Many jobs are short-term and income is subject to wide fluctuations

Work hours include weekends, evenings and holidays Work environment is often unpleasant

ERIC*

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Trade: Health Medical Occupations

2) Advantages: Part time work available
May receive travel expenses, meals, lodging

3) Training Opportunities: Vocational Schools

IX. EVALUATION:

As determined by team of teachers

COURSE: Health Medical Occupations

OCCUPATION: Home Health Attendant

. NO. 8

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT. WORKBOOKS OTHER SUPPLIES
See Nurse Aide See Tray Girl See Hospital Housekeeper	See Nurse Aide See Tray Girl See Hospital Housekeeper	See Nurse Aide See Tray Girl See Hospital Housekeeper	See Nurse Aide See Tray Girl ·See Hospital Housekeeper	See Nurse Aide See Tray Girl See Hospital Housekeeper
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PERSONAL SERVICE OCCUPATIONS

Trade: Personal Service Occupations

I. JOB TITLE: Hotel/Motel Housekeeping Aide

II. JOB DUTIES:

Remove trash and clean trash containers

Remove used bed linens and towels and replace with clean ones

Make bed using fresh linen

Clean windows, mirrors, electrical cords, television screens, telephones,

surfaces of furniture, walls, doors, ceiling, chairs, draperies

Clean and disinfect bathroom vanities, basins, toilets, tubs and shower curtain

Clean and disinfect bathroom surfaces and floors

Vacuum and spot clean carpets

Supply tissues, soap, glasses, matches, ashtrays

Check Bibles, telephone books, writing materials and replace as needed

Report items found which are left by guests
Report repairs which may be needed in area
Keep written reports on rooms as required by h

Keep written reports on rooms as required by housekeeper

Keep supply cart stocked

III. WORKING CONDITIONS:

May require Saturdays, Sundays, holidays, split shifts Necessary to be tactful with guest

IV. JOB REQUIREMENTS:

Be able to get along well with others
Be healthy-physically strong
Have basic reading and writing
Be responsible, honest and dependable
Be neat and clean in appearance
Be mentally able to comprehend
No experience necessary

V. JOB CONDITIONS:

Determined by field trips, guest speakers, etc.

VI. BASIC SKILLS AND KNOWLEDGE:

Be able to follow written directions in sequence
Be able to communicate effectively with housekeeping personnel and guests
Be aware of principals of hygiene and public health

VII. JOB PRACTICE:

Laboratory/Simulated environment

VIII. ACADEMIC DEMANDS:

Reading: Be able to read and follow simple directions

Math: Be able to count

Verbal: Report items found which are left by guests

Communicate with guests and co-workers

Written: Keep reports on rooms as required by the housekeeper

Trade: Personal Service Occupations

L JOB TITLE:

Institutional Housekeeping Aide

(Nursing Home/Hospital/Commercial Buildings)

II. JOB DUTIES:

Empty ashtrays and waste paper baskets and reline the containers

Dust surfaces of furniture in the room

Dust and damp mop floors, in rooms and halls

Vacuum rugs in rooms and halls Clean and disinfect bathroom

Change linens and make beds as necessary - Replenish toilet tissues, paper towels and soap

III. WORKING CONDITIONS: .

May be required to rotate and work on weekends, holidays and shifts

Subject to infection

Stand, bend or stoop most of the time

IV. JOB REQUIREMENTS:

No experience necessary

Be able to read and write

Be healthy-physically strong

Be neat and clean in physical appearance Be able to work under supervision

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VI. BASIC SKILLS AND KNOWLEDGE:

Be able to follow written directions in sequence

Be able to communicate effectively with fellow workers, personnel,

patients and customers

Be aware of the principles of hygiene and public health

VII. JOB PRACTICE:

Laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Be able to read simple signs and directions

Math: Be able to count

Verbal: Be able to communicate effectively

Written: Keep reports as requested by the housekeeper

NO. 1 .

OCCUPATION: Hotel - Motel Housekeeping Aide

LEARNING GOALS

... To be aware of factors effecting availability of employment.

... To understand the importance of preparation for work.

... To know where to seek information regarding work.

... To be aware of the changing roles of men and women in the world of work.

... To be aware of the benefits of regular employment to the individual.

To develop a wholesome attitude toward work.

... To develop personal values

.... To be aware of one's personal skills, competencies and talents as well as limitations.

... To be able to tell time accurately

... To be able to keep a weekly time card

To be able to: Tell time Add and subtract hours Add and subtract money Figure gross and net pay. Manipulate fractions

LEARNING ACTIVITIES

... Collect pictures, statistics and other information For bulletin board showing prosperous and destitute times in our history.

changes in employee income level.

... Discuss job market demand for skilled workers and decrease in unskilled

time and service-type jobs.

... Discuss shorter work week.

men in labor force.

ity for trained workers.

society's attitude toward "men's jobs" and "women's iobs".

... Construct collages of:

What is important in my life today? What will probably be important a year after graduation? What will probably be important ten years after graduation? What will probably be important at retirement ... Discuss collages:

TOOLS, EQUIPMENT SUPPLIES

NEW TERMINOLOGY MATH

TEXT, WORKBOOKS OTHER MATERIALS

Teacher made charts

Scissors

Paste ,

Oak Tag

Teacher made vocabulary lists

Filmstrip projector

Screen

Teacher made math work sheets -

Time

Money

Pav

Fractions .

Budgeting

Film Projector

Messy motel room

Suitcase

Job application forms

Personality rating form

Personal habit rating form

Clean fresh uniform

Clean, well fitting shoes

Room pass key

"Do Not Disturb" sian

Hot water

Soap

Water

Paper Towels

Wastepaper basket ·

Chemical disinfectants

Warm water >

Mops

Brushes

Cleaning cloths

Maids cart

Detergent

Cleaning solvent

Waxes

VOCABULARY '

Employment Skilled worker Unskilled worker Income

Job Market

Part-time

Service Type Jobs

Work Week

Labor Force

Living Standard

Automation

Personal Satisfaction

Financial Security

Indepencence

Self Réspect

Employment Agency

N.Y.S. Employment

Service

School Guidance Office

Chamber of Commerce

Want Ads

Social Security

Dependents /

Previous Employment Maintenance

Standards

Sanitation

Cleanliness

Facility

Motel Chain

Nursing Home

Retirement Community

Dormitories

Comfort

Service

Newspapers Magazines Social Security Application Forms

Chalk board

Bulletin Board

FILMSTRIPS (On Hand)

1. Paying Your Bills

2. Spending Your

Money 3. Buying Insur-

ance 4. Making Money

Work For You

5. Borrowing Money

TEXT

Mathematics for Living, Book 2

Pruitt Ptess, Inc.

FILMS

Your, Family

Budget

Coronet Films

Why Budget? McGraw-Hill

WORKBOOK Application Form F.E. Richard Pub. Company

192

... Discuss history of

... Discuss increase in part

... Discuss increase of wo-

... Discuss wider opportun-

... Discuss the change in

Why important?

191

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LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WQRKBOOK OTHER MATERIAL
To be able to prepare	Are all equally impor-	Insect sprays	Complaint	REFERENCES
a budget.	tant?	Abrasives	Dismiss	Hotel & Motel
To be aware of the	Can we do without	Polishes *	Manager	Housekeeping
scope of this occupational	some?	Bleaches	Attitude .	Aid
field.	How can we attain the	Softeners .	Personnel	U.S. Department
To be aware of the places	most important?	Brooms	Raise	of H.E.W., Office
that employ people for this	Give oral reports on some	Sponges	Self-respect	of Education
type of work.	aspect of having vs.' not	Vacuum	Security	or Eulecation
To understand the value 📝	having (ex):	Dust mop	Independence	TEXT
of this work to guest, em-	Personal knowledge of	Wet mop	Self-support	Being A House-
ployer and self.	having or not having.	Dust cloths	Fringe benefits .	Keeping Aide
To understand the per-	Newspaper article.	Brushes	Deductions	Hospital Research
sonal benefits of employ-	Ghetto crime.	Scrub ,		and Educational
ment as a Hotel/Motel aide.	Welfare.	Radiator	Gross Pay	Trust.
To be aware of the im-	Discusi future:	Toilet	- Net Pay	- 17656
portance of hours-keeping	"Dreams" vs. reasonable	Stationery	Hourly Rate	The Correct Maid
as a major function in hotels	expectations	Sani-bags	Salary	for Hotels &
motels and hospitals.	Fiction vs. Non-fiction	Menu	Residence	Motels
To be familiar with the	TV vs. the real world	Services directory	References	
duties assigned to the house-	Speakers present infor-	Toilet seat band	Social Security Number	Ahrens Pub. Co.
keeping department.	mation on employment and	Laundry bags and lists	Marital Status	Errad omnand
To understand the prin-	services offered by their	Comment slips	Siblings	FILM STRIPS
cipies involved in the house-	organizations:	Tissues	Honesty	Housekeeping
keeping duties.	N.Y.S. Employment	Matches	Responsibility	Safety
To be aware of the qual-	Service		Courteous	Trained Corp.
ification for employment as	Private Employment	Glasses	Orderliness	
a hotel/motel aide.	Agency.	Linens	Efficient	FILMS
To be aware of one's	Chamber of Commerce	Toilet tissues	Attitude	Safety in the
personality strengths and	Local newspaper	Pail	Cooperative	Home
-weaknesses.	Social Security Office	Language Master	Tactful	N.Y.S. Dept. of
To develop a plan to im-	Fill out applications for	Language Master cards contain-	. Willingness	Health'
prove on personality weak-	Social Security cards.	ing vocabulary words	Dependable	Home Homicide
nesses.	Field trips to:	Job assignment sheets	Promptness	N.Y.S. Dept. of
To develop good groom-		Pencils ·	Appearance .	Health
ing habits.	N.Y.S. Employment Service Office	Supply cart	Stamina •	First Aid Now
To understand the prin-	4	Room supplies	Alert	Association Films
	Employment agency.	Maid's basket	Employer	1
ciples of safety.	Chamber of Commerce	Spray detergent	Employee	
			•	-
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Full Text Provided by ERIC		• .	, 134	

OCCUPATION: Hotel - Motel Housekeeping Aide			NO. 5		
LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS	
To be able to identify safety hazards To be aware of possible consequences of not rectifying hazardous conditions To be aware of practices that help prevent accidents.	Practice telling time Practice keeping weekly time cards Practice: Figuring time-hrs./mins. Adding hours	Cleaner Spray disinfectant Bowl mop Air freshener Glass cleaner Printed supplies	Experience Hazard Electrical Outlet Plug Unattended	TEXTS The Correct Maid Hayden Pub. Co. FILM How To Be Well	
To use safe techniques in the use of cleaning supplies and equipment To understand that proper dress and grooming con-	Subtracting hours Adding money Subtracting money Figuring gross pay Figuring deductions Figuring net pay	Envelopes Postcards Room service Telephone book Credit card applications Comment slips	Accident Prevention Frayed Haste Cords Break	Groomed Univ. Missouri TEXT Teaching Desirable Habits	
tribute to safety. To be aware of the practices and habits that lessen the probability of accidents. To be familiar with emergency procedures.	Working with fractions 1/2's and 1/4's Discuss the why's and how's of budgeting Practice preparing budgets.	Bible Matches Ash trays Wrapped soap Sterilized Disposable	Connection Work Habits Punctual Delay Telephone	able Habits McGraw·Hill Book Company TEXT Being a House-	
To understand the impor- tance of starting the work day effectively. To understand impor- tance of good grooming. To be able to follow the	Discuss contribution of this work to the American way of life Discuss people who travel frequently as part of their job.	Container for ice cubes Cleaning and dusting cloths Disposable bags Room inspection sheet Air conditioner Waste can	Daily Shower Bath Deodorant Personal Hygiene	keeping Aide FILMS Keep It Clean Huntington Labs, Inc.	
checkin procedure for work To understand the importance of extending friendly and courteous service to all guests To maintain a coopera-	Discuss the similarity of employment in the following: Hotels Motels Hospitals	Assignment sheet Beds Mattresses Fitted sheets Large sheets	Uniform Routine Checking In Housekeeper House Rules Pass Key	What Now? National Institute of Rug Cleaning, Inc. FILM STRIPS	
tive relationship with team members To understand the correct procedure for entering a room.	Nursing Homes Children's Homes Retirement communities. Individual Homes	Bed pads Blankets Spreads Pillows Pillow cases Laundry bag	Linen Room Pleasant Appearance Courteous Cooperative Dependable	Bed Making Once Around Holiday Inn REFERENCES	
To understand the prin- ciples of sanitation and dis- infection control.	Business establish- ments. Dormitories	Spring Soft cloths Cardboard	Honest Lock Indicator	Housekeeping Manuel Holiday Inn	



Indicator

... To be able to recog-

· LEARNING GOALS

nize area in need of cleaning ... To be able to select and use supplies, tools, equipment and techniques appropriate to the cleaning task at hand.

"... To be able to properly clean a variety of surface areas and finishes.

... To be able to improvise equipment for cleaning tasks as necessary.

... To be able to change and make beds.

... To know how to properly dispose of different types of rubbish.

... To be aware of the -frequency with which different housekeeping chores are to be done.

... To be able to clean a quest room properly in a reasonable amount of time. ... To be able to complete

and/or read necessary forms and schedules.

... To be aware of the need to control pests and rodents ... To understand the proper

procedure for stocking the supply cart.

... To be able to inspect a room for "checkout" and "stay over".

LEARNING ACTIVITIES

TOOLS, EQUIPMENT SUPPLIES

NEW TERMINOLOGY MATH

FEXT, WORKBOOKS OTHER MATERIALS

... Ouestion friend, relatives, teachers, etc. about stays in motels or hotels and give oral reports covering: Comfort

Cleanliness Attitude of hotel personnel Things that please Things that displease

... Role play quest being shown into a messy or poorly cleaned motel room. ... Role play meeting between manager and maid discussina:

> Poor work. Good work

... Discuss repeat business

... Discuss how a good or bad experience could effect other motels in a chain.

... Role play satisfied salesman leaving for another city after night's stay.

...Role play dissatisfied salesman leaving for another city after night's stay.

... Discuss:

Security of employment Self-respect Independence of self support Job availability Salarv

Polish

Spray air freshener Abrasive cleanser

Detergent solution

Window cleaner

Clean cloths

Special tile cleaner

Pail with sponge

Clean water

Stiff brush

Rubber aloves

Disinfectant

Bowl brush

Germicidal detergent and brush

Sponge mop

Bucket

Spotting kit -

Club soda

Clorothene

Shampoo solution.

Shallow inside pan

Lamb's wool applicator

Warm water towel

Solvent-dry cleaning fluid

Cold water, follow with am-

monia

Allow to dry, brush off with

vacuum

Scrape off, apply clorothene

Vacuum cleaner attachments

Dust pan

Waste receptacle

Newspapers .

Cleaning agent

Wet mop bucket

Two bucket dolly on casters

"Do Not Disturb"

Vacant

Maid Occupant

Frequent

Germs

Hygiene

Clean

Surface

Detergent

Solvent

Abrasives

Bleach

Softeners

Stationery

Kitchenette

Lavatory

Patio

Damp Mon

Corridor

Stripping

Airina

Verticle

Sign

Occupied

Habit

Hand Washing

Bacteria

Sanitary

Boilina

Chemical Disinfectant

Sani-bags

Disinfect

Horizontal

Recommendations

Occasionally

Room Report .

Let's Clean House Proctor & Gam.

Helpful Hints for Shareton Maids .

Shareton Corp.

Housekeeping for

Hotels, Motels, Hospitals, Clubs,

Schools

Hayden Book Co.

Motel Planning

and Business

Management

W.C. Brown Co.

Household Equipment Principles

Prentice-Hall, Inc.

FILM STRIPS By Trainex

Housekeeping

Orientation

Custodial Duties Hospital Floor

Care

Hospital Carpet

Equipment Cleanliness

Care

Housekeeping ... Manual

Holiday Inn





NO. 5

OCCUPATION: Hotel - Motel Ho	usekeeping Aide	, NO.	. 5	
LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
To understand how to check a room for valuable items which may be left behind To be able to air a room properly To be able to remove trash and extra items and deposit them in their proper places To be able to fill out room report indicating condition of room To be able to prepare vacated rooms for new guests To be able to strip the bed of soiled linen To understand how to handle soiled linen To be able to make a bed using the "Once A-round Method" To be able to clean brass fixtures properly To understand the correct procedure for cleaning a bathroom To be able to properly clean the medicine cabinet, mirrors, light fixtures, wall tile To be able to clean and polish the tub and wash bowl To understand how to wipe the sliding glass doors	Fringe benefits Take field trips to hotels, motels, nursing homes, hospitals, etc Discuss personal traits: Honest-dishonest Responsible-irresponsible Courteous-rude Orderliness-untidiness Efficient-incompetent Good attitude-poor attitude Cooperative-uncooperative Tactfül-tactless Willingness-obstinance Dependable-undependable Promptness-tardiness Good appearance-disheveled Good health-poor healthComplete personality rating sheet and personal habit rating sheet Construct bulletin board of people groomed appropriately and in-appropriately for different activities such as: Applying for a job Work as a hotel/motel aide Set up criteria for proper grooming for different situations.	Liquid soap Vacuum for dry cleaning Cleaning pails Soluble alkalis Water emulsion Damp cloth Step ladder Pronged brush Magazines Room Service Bag Hangers		FILM STRIP Bed Making Once Around Holiday Inn FILM STRIPS By Trainex Hospital Floor Care Custodial Duties
19			200	

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
or shower curtain properly.	Evaluate one's own		Soiled Linen	
To know how to clean	grooming habits and dis-	*	Dangerous	·
inside of toilet bowl with	cuss them orally or in		Handle	•
a brush.	writing.	· · '	Hazard .	•
To know how to clean a	Select one or two groom-		Parasites.	!
toilet seat.	ing habits to work on at		Germs	
To know how to apply	home for one week. Report	į,	Smooth	·
paper band on toilet seat	on progress.		Straighten	j -
indicating sanitary cleaning.	In room:	*	Miter*	İ
To know how to wash bathroom floor.	Turn on lights before en-		Corner	
To understand care for	tering darkened room.		Bed Spread	υ
	Empty waste paper bas-	` .	. Mattress .	
carpets To know how to vacuum	kets by turning upside down	· .	-Tucking	•
To know how to spot	over old newspapers.	• • •	Complete	
clean carpets.	Use good body mech-	•	Edge	1
To understand, operate	anics to avoid back strain.		Place	•
and care for a vacuum	Use care in handling		Sheets	
cleaner.	furniture to avoid splinters		/ Stack	•
To understand how to	or cuts.	•	Cardboard	1
dry mop a floor,	Discuss possible safety		Wipe	•
To understand how to	hazards in hotel or motel	j	. Metal	. " •
wet mop a floor.	housekeeping situations.	j	Apply ,	, ,
To understand the impor-	Construct bulletin board		Shine	
	of sketches, drawings and	· · · · · · · · · · · · · · · · · · ·	Uniformly .	,
tance of caring for cleaning	picutres of hazardous sit-		Bathrooms	;
equipment.	uations and accidents	`	Medicine Cabinet	•
To understand the impor-	caused by same.		Mirrors	İ
tance of caring for and	Give oral and written		Tile	-
maintaining different types of floors.	reports on newspaper ar-	'	Bowl	į
	ticles about accidents	•	Abrasive	
To know how to apply liquid wax.	caused by allowing haz-		Stiff .	
To understand how to	ardous situations to persist.		· Light Fixture	ľ
•	Discuss and illustrate:	•	Sanitary	.1
dust.	Inadequate lighting		Agent	
To know how to dust wenetian blinds.	Hazardous furniture ar-		Bucket	
•	rangement.		Ammonia	
To know how to replace	Unmarked glass doors		· Clorothene,	,
missing room supplies:	Dangergus fipors or rugs		Club Soda	
FRIC	LO L		202	

LEARNING GOALS	LEARNING ACTIVITIES .	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
· · ·	Unsafe stairs		Vacuum Cleaner	
•	Slippery floors		Performance	•
•	Tripping and climbing	·	. Light Weight	
	· hazards	· [Heavy Duty	
	Clutter	1	Electric Appliance	
	Faulty labeling	•	Plug	N
	Frayed wires		Bag	
	Loose connections	1	Removal	
	Broken glass	· 1	Brush	
	Haste	1	Clear	Ī
	Poor work habits	1.	Floor	
	Carelessness		Bucket	
	Discuss ways of prevent-	-	Dolly	
	ing accidents:		Dolly Caster	
	Practice self control	1		
#	Safe working practices	. ;	Synthetic	
,	concerning electricity,	1	Detergent	
	glass, mobile units and		Surface Soil	
•	cleaning supplies and	ω.	Detrimental	1
•	equipment.		Agents	1
_	Use of good body mech-	•	Abrasives	1
•	, anics	•	Grease ,	
	Use of step stools or	1	Oil	•
	ladders when needed.		Acids	
•	Wiping up spills im-	· ·	Strong	1
•	mediately.	•]	Alkaline	
,	mediately. Use of handles and	1.	Dust	1
•		l	Proper	
	knobs when opening	1 '	Protect	
	and closing doors.	1	Finish	•
	Emptying ash trays and	1	Remove	
	wasté baskets properly.	1	Improve	1
	Discuss, demonstrate and	^	Appearance	
	practice emergency proce-	:1	Damp "	. 1
*	dures.	1	Varnished .	
•	Survey situation.	,	Surfaces .	! .
ბივ	Notify manager or su-		Polish	' ,
203	pervisor.	1	Frequently	204
<i>7</i> 3	ł	1		~1 :
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OCCUPATION: Hotel - Motel Housekeeping Aide			NO. 8	
LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
	Contact appropriate specialized personnel Present case problems		Grain Wood	
n	involving accidents due to		Fold	•
	poor work habits. Have		Expose	
	students discuss causes and		Underside Step Ladder	
•	prevention.	\	Insert	1
	Through brainstorming	•	Lower	
	session compile a list of		Full Length Slats	
•	safety hazards from within	į.	Fly Swatter	
	building and students sug-		Hangers	
	gest measures for elimin- ating them.			
	Discuss dress and groom-			
,	ing practices as related to	*		Į.
	safety.			
	Unsafe shoes			,
·	Restrictive garments		•	1
•	Gaping pockets	į –		İ
,	Flowing sleeves	<u> </u>	*	
,	Loose, flying hair			* ***
	Construct bulletin board		İ	
•	featuring unsafe situations	·		
•	due to improper clothing			
	or grooming. Use drawings, • \ magazine pictures, etc.		•	
	Discussion	1		
•	Role playing	,		ĺ
	Film strips	[
· ·	Proper dress for work			_
	Demonstration and prac-	, .		
✓	tice.	ſ		
•	Methods of checking in		î	
4	Role play various situa-	, ,		1
~ .	tions between team mem-			
• '	bers and between the aide			
•	and the guest.	レ	206 .	, ,
A A W	205	ľ.	``.	

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
-	Demonstrate and practice the correct procedure for entering the room Role play Discuss, demonstrate and practice			
	Proper handwashing Discuss, demonstrate and practice the care and clean- ing of the following mater- ials:	•		
	Fabrics Plastic Paper Rubber Linoleum	,		,
	Vinyl Metals Glass Leather Wood Include products, tools	·		
	and equipment to be used and the methods for using them Discuss, demonstrate and practice the care and clean-	·	,	
•	ing of the following finishes Porcelain Varnish Shellac Paint Stain		•	
	Wax Exhibit products used in cleaning Have individuals select			2 08
ERIC 20	07	1	. <	

NO. 10

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
	a product, read the label and tell class what the product is used for, what materials to use it on, how to use it, what precautions to use, etc Exhibit tools used in	•		·
•	cleaning and discuss their use Take a field trip to store and make survey of cleaning products. Make notes of weight, cost and			
	manufacturer's recommendations for using Discuss different areas of institutions which are to be cleaned. Sleeping rooms			
	Meeting rooms Kitchenette Offices Labatories and baths Corridors Stairways Porches			****
	Patios Compile lists of chores which are to be done daily; weekly and occasionally Make a list of items on		•	
	a properly loaded maid's cart Discuss, demonstrate and practice the proper se- quence of procedures and methods of cleaning:			8
ERIC	209		. 210	

NO. 11

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	- TEXT, WORKBOOKS OTHER MATERIALS
	Guest room			
•	Bathroom		,	1
•	Kitchenette		,	1.
	. Meeting rooms		, , ,	· ·
•	List these procedures		,	1.
•	and methods and use as		,	~.
•	a study chart.	,	· 1	1
••	From memory list steps	· [,	1
•	in cleaning a guest room,	. "	· • • • • • • • • • • • • • • • • • • •	1
	sanitizing a bathroom, and	'	, · · · · · · · · · · · · · · · · · · ·	1
	cleaning kitchenette.	·		
· •	Discuss, demonstrate and	7	1	1
. , ,	practice the use of "Do Not *	·	,	1
-	Disturb" sign.	. ,	1	<i>i</i>
	Teacher made job assign-	'		()
	ment sheets to be checked	· • / / / /	1	1
	off by student at com-		1	1
•	pletion of job.	'	A • • • • • • • • • • • • • • • • • • •	
•	Demonstrate and practice	- '	. ,	
1	Discuss, demonstrate and	'	1	1
•	practice inspecting a room	,	1	<i>i</i> .
· ` · · · · · · · · · · · · · · · · · ·	for "checkout" and "stay	· [1 /	
	over".	,	1	1
· •	Discuss and role play	'	1 . ,	· -
• •	finding a valuable item left	,	1	1
	by guest.	· .	1 -	1 L
P	Discuss, demonstrate and	,	1 .	1
	practice airing a room.	•	1	1
		· ,	1	1
· •	Practice proper method	,	1.	
	of handling waste:	·]	1	i
	Small waste cans	· 1	1	
•	Bags	•	1	,
	Large trash containers	· • • • • • • • • • • • • • • • • • • •	1	ı
	Discuss, demonstrate and	· · ·	4	1
	practice filling out room		1	1
	report.	,	1	
•	Discuss; demonstrate and	• • • • • •	1	212
		• 1	· 1	
		• • • • • • • • • • • • • • • • • • • •	<i>i</i> ,	
ERIC 7	211	· i	1	<i>.</i>
bill Text Provided by ERIC		j	ϵ . 1	

OCCUPATION: Hotel - Motel Housekeeping Aide

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
,	practice preparing vacated	-		
,	room for new guest Discuss, demonstrate and	1	1	
•	Discuss, demonstrate and practice stripping bed and			
•	disposing of soiled linen.			•
	Discuss, demonstrate and		•	•
	practice:		1	•
	Returning lost items		1	•
	Airing the room			•
	Discarding magazines,		1 "	
	newspapers, etc.	·		. :
	Reporting evidence of	· •		
•	pests	. '		ŧ
	Polishing wood	. '		
	Cleaning lights	,		•
)	Removing spots and	• 1	<u>'</u>	•
	stains		1	_
	Airing the bedding	. ,	, ,	
	Turning the mattress	,		*
	Checking the drawers	· 1		
•	Cleaning the closet	· · · · · · · · · · · · · · · · · · ·		
	Gatherine and replacing	· · · · · · · · · · · · · · · · · · ·		*
	bath linen	. '		
•	Cleaning and disinfect-	1 -	1	,
	ing toilet, wash basin,	,	1	. ,
	tub, shower, soap dish		1	
•	and tooth brush holder.	· .		
•	Reporting damage or	· 1		•
	missing articles.	4.	f .	•
	Checking the operation '	7	1	-
*	of windows, blinds,	- 1	1.	
,	lights, TV, air condition	1		
	ers, etc.	· [·	1	,
	Emptying waste baskets	· 1	1	, ,
,	Show film strip "Bed		1	1
· • •	Making Once Around."	· [
	Demonstrate and practice	1	. 214	1.
		7	1	!
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COURSE: Personal Services

OCCUPATION: Hotel - Motel Housekeeping Aide

NO. 13

		- `		·
LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	' NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
	correct procedure for	•		
*	making a bed "Once A-	1		,
•	round" Discuss, demonstrate and	1	· ·	,
• - В	practice cleaning brass fix-		, `	· -
` ^	tures.			1
,	Discuss, demonstrate and			
	practice the proper care	,	1	
•	of bathroom including walls		•	• .
• , ;	floors and fixtures.			· .
74	Demonstrate and prac-		i	
•	tice cleaning sliding glass	, .	İ	,
•	doors, shower curtain,	1.	· ·	
1	toilet bowl and seat, and			
,	μ bathroom floor.		•	
` .	Demonstrate and prac-			
	tice applying paper band to toilet seat.			
			· .	•
•	Demonstrate and prac- tice on different types	1 ' 1		
•	office on unietent types			•
	g of loop nylon	1 .		^* # .
·	Suish nylon			
	Acrylic loop plush	1	,	
	Wool loop plush		·	
	Level twist	"	,	
•	Ax minster wool			,
	Have students spot		· '	/ -
	clean some common stains	*,		,
	Sugar drinks	. '	1	•
•	Oil-grease-tar		<u> </u>	
~	Milk, blood	·		
	Pet stains	· 1		_
,	Mud Conducted and	,		•
	Candy and gum Demonstrate and prac-			
' .	tice removing and replac-			
	ing bags in the cleaner,	•	0.10	•
215	- y bays in the cheaner,		216	·
EDIO.	1	i ,	.	•

NO. 14

OCCUPATION: Hotel - Motel Housekeeping Aide

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
	how to use the attach- ments.			
	ments Discuss, demonstrate		·	•
•	and practice dust mopping	1 . 1	1.	
	a floor surface.			•
	Discuss, demonstrate		1	
1	and practice wet mopping		1	
1 ,	a floor.		}	• •
	Demonstrate and prac-		.	••
	tice how to care for:	-		
	- Wax applicators	1	. ~	
	Soft brushes		1	•
•	Demônstrate and prac-			•
	tice.	1	ĺ	
	Student will dust the	,	"` .	(
	following areas with treat-	1	.	,
	ed cloth. Dust high places	1	· 1	
	first.	1		,
•	Door	1		
	Closet .	Į į	•	
•	Head boards	1	·	
•	Night stand	1 .		•
•	Telephone	1		•
	Pictures Air-conditioner	1	1	•
•	Air-conditioner Patio rails	1		
۸ ،	Window frame	1 .	. 1	*
· •	window frame Lamps	1	1	
•	Television	1	1	
•	Chairs .	1	1	
•	Desk	1	·	
:	Demonstrate and prace	.1	i	•
	tice cleaning venetian			
• •	blinds.	1	i	•
,	Discuss, demonstrate	1		
	and practice proper dust-	1		^4^ '
•	ing methods.	1		218
•		1	`	
	. 217		1.1	1,
ZDIC.	,		'	×/ 🛋
	· i ,			

NO. 15 ·

	•	· • • • • • • • • • • • • • • • • • • •	*)
LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES .	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
	High	1		
	Low	1		-
	Verticle :		·1	•
••	Horizontal			
•	Discuss, demonstrate		1	
•	and practice proper floor		1	* ,
	care:		1	
	Vacuuming Dust mopping	1		
	Dust mopping Damp mopping		1	
	Damp mopping Wet mopping	1	1	•
	wat mopping Stripping	,	1	•
•	Waxing Variables	,	1	
•	Discuss, demonstrate	. '	1	
ř	and practice proper	,	1	•
	methods of cleaning win-		1	
	dows and mirrors.		1	. ~
•	Discuss, demonstrate	,	1	•
	and practice role playing	,	1	₩.
•	the proper way to enter	'	1	••
	guests room.	,	·	· · · · · · · · · · · · · · · · · · ·
•	Define vocabulary	•	•	•
•	, words on teacher made	. ,		•
	sheets,	·	1	
	Review vocabulary	,	1	
	words orally.	. ,		•
,	Use Language Master	·	1	\sim
, ,	to review vocabulary	` ,	1	
,	words.	1	· ,	
	Take field trips to:	1 7	· /}	•
•	Motel Hotel	1	1	
y)	Hotel Nursing	ı j	1 ' "	•
	Nursing Children's Home	1	6 • • • • • • • • • • • • • • • • • • •	•
		,		
		· l		<u>.</u>
•	Introduce, show and discuss appropriate films	i j		220
•	arscais appropriate runs ,	j	1	RRY
	. 1	1		· ·
ERIC 219	.) [l j		i
<u>Cric</u> " " "	1		1.0	·

NO. 16

OCCUPATION: Hotel - Motel Housekeeping Aide

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
•	and film strips.			
•	Practice completing room and job assignment			•
	forms,	1		•
	Practice reading work	1	1	
*	schedules, occupancy fore-	· .	. 1	
• .	cast sheets, staff assign-	· ·	1	
	ment. sheets, room inspec-		1	
	tion form.	- 1	1	
: .	Demonstrate and prac-	, <u> </u>	1 -	*
•	tice.		1	:
A	Replace room supplies	1	1	
•	in the following places.	. '		
•	A. Night stand	1		
	Ash, tray & matches	· '	1	
	Telephone directory	.	1	•
	B. Table	'	1	1
	Bible	·	1	•
in the	Current Inn Maga-	· }	1	
· ·	zine		1	
	Current Inn Direct-	·	1.	· · · · · · · · · · · · · · · · · · ·
•	ory	. 1	1	
•	C. Desk - on top	1	1	
	Credit Card	. [1	
•	Applications	. i	1	•
· •	Comment slip		1	,
	Ash Tray & Matches D. Desk - in drawers	4	1.	, '
	D. Desk - In drawers Fly swatter	· [· · · · · · · · ·]		
	Sani-bags	l j	1	
,	Room service menu	i j	· · · · · · · · · · · · · · · · · · ·	•
•	Directory of services			•
	l "Do Not Disturb"			•
	sign	1	,	,
	Stationery bag con:			· \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
•	taining 4 pieces sta-	1		```\`` ` ``\
	· tionery, 2 envelopes,	1 . [,	
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ERIC •	221			
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COURSE: Personal Services

OCCUPATION: Hotel - Motel Housekeeping Aide

NO. 17

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
	2 post cards. E. Closet Laundry bag with lists			
	Correct number of hangers	••		
·	•			
•				
223				224
ERIC Provided by ERIC				

FOOD TRADES

ERIC

225 1

OCCUPATIONAL READINESS CENTER

COURSE: FOOD TRADES

UNITS:

First Quarter: Sandwich Maker

Salad Maker Beverage Maker

Dishwasher (See Potwasher)

Counterperson, Short Order Cook

Cashier Cook/Chef

Cafeteria Worker-Steamtable Worker

Waiter - Waitress

Baker and Baker's Helper

Kitchen Helper

🚅 Second Quarter: Same as First Quarter.

Third Quarter: Same as First Quarter.

Fourth Quarter: Same as First Quarter.

I. JOB TITLE: Sandwich Maker/Salad Maker

IL JOB DUTIES:

Makes all fillings, spreads and sandwiches
Prepares all ingredients for sandwich fillings and spreads
Prepares and packages all sandwiches
May prepare garnishes, such as cole slaw, for sandwiches
Cleans work area and utensils used
Keeps records of sandwiches prepared and served

III. WORKING CONDITIONS:

Well lighted, ventilated work area
Cooler area of kitchen to work in as minimum cooking area
Standing, bending, lifting
Work in relatively confined area
Subject to cuts
Rotating shifts, days off; holiday work

IV. JOB REQUIREMENTS:

18 years of age Some experience in food work helpful

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VI. BASIC SKILLS AND KNOWLEDGE:

Quick efficient; hand/finger dexterity
Hand-eye coordination
Good memory
Able to follow instructions

VII. JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Able to read printed menu, food lists, can and package labels.

Math: Simple math computations; number of slices of bread, number of sandwiches sold

Verbal: Able to be adequately understood by co-workers

Working knowledge of English so instructions may be understood

Written:

ADDITIONAL JOB INFORMATION: -

- Disadvantages: Weekend/holiday work Rotating shifts and days off Standing, walking, lifting during shift Generally warm and noisy
- 2) Advantages: Steady, constant employment opportunities Good chance of advancement, with additional training Good employee benefits

3) Training opportunities: On the job Vocational/Trade Schools Restaurant/hotel training schools
Armed forces

IX. EVALUATION: As determined by team of teachers

NO. I

OCCUPATION: Sandwich Maker

LEARNING GOALS

... To become familiar with various types of breads and

... To become acquainted with different types of sandwiches

... To understand importance of sanitation and safety

... To make and serve sandwiches attractively

To understand the need to wrap properly

LEARNING ACTIVITIES

Make a simple sandwich

- a) White bread
- b) Rve bread
- c) Pumpernickel
- d) Whole wheat
- e) French, Italian
- f) Hamburger and hot dog rolls
- a) Hard rolls
- h) Sandwich buns
- ... Sandwich variations 🕟
- a) Salad type
- b) Triple decker
- c) Open
- d) Grilled
- e) Hot
- f) Party type
- ... Wrapping of sandwiches
- ... Use and preparation of garnishes
- ... Working sandwich station during operation of restaurant/cafeteria
- ... Bulk sandwich making
- ... Choices of assignments for motivation, evaluation, and acquiring of additional knowledge and skills in sandwich making .

TOOLS, EQUIPMENT **SUPPLIES**

Cutting board Knives

Bowls

Saran wrap or baggies Breads/Rolls

Measuring utensils Mixing spoons

Slicer Scale

Sandwich fillings

(Cold cuts, salad fillings, etc.)

NEW TERMINOLOGY MATH

VOCABULARY Mince

Dice . Chop

Cream Slice

Grill Garnish

Diagonal Drug Store wrap

Whole wheat Pumpernickel Triple decker

Condiment Contaminate

MATH

Fractions Measuring-weight scoop size, etc. **Ouantity**

Food Preparation Our First Foods Book McCalls Cook Book

TEXT, WORKBOOKS

OTHER MATERIALS

Commercial Foods **Mathematics**

FILMSTRIPS

Sandwiches. Pepperidge Farms

FILMS

It Happens Every Day Skill Counts at the Sandwich Counter

FIELD TRIPS

I.B.M. Reader's Digest McDonald's Grandma's Pies

Teacher Made Materials

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NO. 2

	LEARNING GOALS &	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
•	To understand the importance of safety and sanitation Identify the various types of salad greens Know how to handle salad ingredients Become acquainted with different types of salad dressings. Be able to identify and know when to use them Be able to make all types of salads and know when to use them To make and serve salads attractively Know how to use garnishes	Wash, section and store salad greens Make a tossed salad Prepare other salads using greens Prepare salad bowls Prepare salad blates Prepare salad plates Prepare other types of salads a) Meat and egg salads b) Chef salad c) Vegetable salads d) Molded e) Fruit f) Frozen g g) Salad fillings for sandwiches h) Fish salads Prepare various salad dressings a) French b) Boiled c) Mayonnaise Using salads as appetizer, main course, dessert, accompaniment Choices of assignments for motivation, evaluation and acquiring of additional knowledge and skills as a salad maker	Bowl Colendar Cutting board Knife Oil Vinegar Seasonings Measuring spoons Measuring cups Wooden spoon Scoops	Chop Dice Mince Garnish Contaminate Shred Gelatin Colendar Strainer Boil Peel Pare Core Appetizer Chef salad Combination salad Combination salad Tossed salad Potato salad Macaroni salad Kinds of lettuce (bibb, romaine, etc.) Julienne Entree MATH Measuring Fractions	Food Preparation Our Second Foods Book Commercial Foods Mathematics FIELD TRIPS I.B.M. Kitchen Northern Westchester Hospital Charlie's K-Ranch Teacher Made Materials
•		· .	•	23:	2
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L JOB:TITLE: Beverage Maker

IL JOB DUTIES:

Prepare all hot beverages, supply the cold beverages and maintain beverage service area Prepares coffee, tea, hot chocolate, iced tea
Fill beverage dispensers if used
Pour juices and other liquids as instructed
Insure sugar, cream, lemon containers filled
Clean beverage area and equipment
May help in other areas as needed
May help in pantry area as needed

III. WORKING CONDITIONS:

Well lighted, ventilated work area.

Cooler area of kitchen to work in as minimum cooking area.

Standing, bending, lifting

Work in relatively confined area.

Subject to cuts

Rotating shifts, days off; holiday work

IV. JOB REQUIREMENTS:

Age: 18
Uniform required and provided by employer

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VI. BASIC SKILLS AND KNOWLEDGE:

Quick, efficient; hand/finger dexterity
Good hand-eye coordination
Good memory
Able to follow instructions

VIL JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Able to reed printed menu, food lists, can and package labels

Math: Simple meth computations; number of ounces, etc.

Verbal: Able to be adequately understood by co-workers

Written:

ADDITIONAL JOB INFORMATION:

- Disadvantages: Weekend/holiday work Rotating shifts and days off Standing, walking, lifting during shift Generally warm and noisy
- 2) Advantages: Steady, constant employment opportunities
 Good chance of advancement, with additional training
 Good employee benefits as a full-time employee



3) Training opportunities: On the job Vocational/trade schools Restaurant hotel training schools Armed Forces

IX, EVALUATION: As determined by team of teachers

OCCUPATION: Beverage Maker.

NO. 3

LEARNING GOALS	LEARNING ACTIVITIES . °.	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATII	TEXT, WORKBOOKS OTHER MATERIALS
To be aware of safety To make a good cup of coffee To make iced coffee To serve a cup of coffee To make a good cup of tea To make Hot chocolate and cocoa To know proper procedure for making chocolate milk To make punch To make punch To make juices and cut fruits	Make a pot of coffee a) Percolate b) Electric percolater c) Burns-o-matic d) Drip e) Urn Make Iced coffee and tea a) Regular strength b) Double strength Make a pot of tea using a) Loose tea b) Tea bags Make old fashioned hot chocolate a) Sweetened cocoa b) Unsweetened cocoa c) Syrup Make chocolate milkMake punch Make decorative molds for punch bowl Reconstitute frozen juices Choices of assignments for motivation, evaluation, and for acquiring additional knowledge and skills required of a beverage maker	Coffee pot Measuring cup Measuring spoon Coffee Cup Saucer Spoon Ice Cubes Sugar Cream Tea pot Pot to boil water Large glass Lemon Mixer Cocoa (sweetened and unsweetened) Syrup-chocolate Milk Cream	VOCABULARY Percolater Drip Silex Grinds Filter Ground Sieve Stem (tube) Basket Lid-dome Steep Brew Scorch Skim milk Evaporated milk Condensed milk Powdered milk Sour milk Half and Half Non dairy MATH Measuring, liquid, dry, (instant, powdered)	McCalls Cook Book First Foods Book Teacher Made Materials
235				
239		, .	236	,

Trade: Food ::

L. JOB.TITLE: Dishwasher/Potwasher

II. JOB DUTIES:

Responsible for washing and storing of all eating and serving dishes, silverware, glasses; washing and storing of all kitchen utensils and equipment

Scrapes, washes, rinses, dries, sorts and stacks dishes, glassware, silverware, trays, pots, pans and kitchen utensils

Uses scaps and detergents

May be required to operate dishwashing machine

May get and distribute supplies

Polish copper pots, pans and utensils and hang them on racks

May sweep and mop floors

May wash kitchen windows

Bus dishes

Remove garbage cans

Actual duties depend on the size of the operation

In large institutions dishwasher may only be required to do one job

III. WORKING CONDITIONS:

Work area hot and damp

Cannot be allergic to soap or detergents

Hands always wet, subject to cuts and scratches

Work weekends/holidays, split shifts, evenings

Rotating days off

IV. JOB REQUIREMENTS:

16 years of age with work permit

Must be able to lift heavy baskets of dishes

Must be able to stand for long periods of time

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VI. BASIC SKILLS AND KNOWLEDGE:

None other than ability to be able to get to work on time each day

VIL JOB PRACTICES:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: None

Math: None

Verbai: Be able to speak and comprehend the English language

Written: None

ADDITIONAL JOB INFORMATION:

1) Disadvantages: Unpleasant working conditions

2) Advantages: Fair opportunity for part-time jobs Employee benefits for full time employees

Meal allowance

Opportunity to be trained for more skilled job

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3) Training opportunities: On the job

IX. EVALUATION: As determined by team of teachers.

OCCUPATION: Dishwasher/Potwasher.

NO. 4

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
To be able to perform the duties of potwasher/ dishwasher To be aware of the need for strict sanitary controls in the dish area	Separate dishes, silver, glasses Wash dishes and pots in dishwashing area of kitchen Return dishes, silver trays utensils, etc. to proper area Wash pots and pans a) Soak b) Scour Choices of assignments for motivation, evaluation and acquiring of additional knowledge and skills as a dishwasher	Dishes Pots Classes Trays Silver Cups Saucers Dishes Soda glasses Detergent Brillo Dish racks Silver containers Measuring spoon	Detergent Rinse Soak Scour Sterilize MATH Measuring-liquid, dry	FILMSTRIPS Dishwashing in a Hospital, Trainex Corp. FIELD TRIPS I.B.M. Kitchen Reader's Digest
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		•		
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ERIC •	239		,	

L JOB TITLE: Counterperson

IL JOB DUTIES:

Serves customers at a food counter Supplies customers with place settings

Takes customers orders and repeats them to cook, orally or in writing

Serves orders

May prepare short orders on grill, make coffee, salads, sandwiches May prepare soft drinks, make milk shakes, ice cream sodas; etc.

May cut cakes and pies

May write checks, accept payment, issue change, use cash register

Removes soiled dishes

Keeps counter clean; work area and equipment as well

May sweep floors.

May wash or bus dishes

May also sell candy, cigarettes, cigars, newspapers, magazines

III. WORKING CONDITIONS:

Stand in warm, humid conditions in spite of ventilation Work under heavy pressure during meal hours

Must move rapidly most of the time

Work weekends/holidays/evenings/irregular hours

Rotating days off

IV. JOB REQUIREMENTS:

16 years of age with work permit

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VL BASIC SKILLS AND KNOWLEDGE:

Interest in food preparation

Desire to serve others

Change making ability

Quick and efficient; good manual dexterity

Basic food preparation skills

VIL JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Able to read and comprehend menus, recipes, instructions, package labels

Math: Able to perform basic math computations

Recognize numbers for writing on saleschecks

Able to make change

Verbal: Able to understand co-workers and customers and be understood by them

Communication between counterperson and cook essential

Written: Able to write saleschecks so that customers and co-workers can read them

ADDITIONAL JOB INFORMATION:

1) Disadvantages: Rotating shifts, working holidays/evenings/etc. Hot, smelly working conditions

On feet most of working hours



ADDITIONAL JOB INFORMATION (cont.)

- 2) Alivantages: Chance for advancement

 For parent split shifts provide work when child care is available

 Constant demand for workers

 Employee benefits for full time employees

 Meals provided
- 3) Training opportunities: On the job Vocational Schools

IX. EVALUATION: As determined by team of teachers

L JOB TITLE: Short Order Cook

IL. JOB DUTIES:

Grill, fry, broil or steam foods
Carve meats
Prepare salads
Prepare sandwiches
Fill orders from steam table
Prepare beverages
Prepare foods to be served throughout the day
Serve meals to patrons at counter
Take cash
Order food...
Keep working area neet and orderly

III. WORKING CONDITIONS:

Worksalone or with others in kitchen or small area Be subject to possibility of burns and cuts Work area is often hot and smoky

IV. JOB REQUIREMENTS:

Be free of apparent skin disease
Be able to stand all day
Have full use of arms, hands and fingers
Have good vision and hearing (normal or corrected)
Be able to move about quickly in a small area
Have a keen sense of taste and smell
Speak, read and write English
Have had 1 to 3 months of on-the-job training or some cooking experience
Be at least 18 years of age
Obtain specific experience

V. JOB CONDITIONS:

Determined by field trips, guest speakers, etc.

VI. BASIC SKILLS AND KNOWLEDGE:

Be fast and accurate in taking and completing orders:

Be able to work under pressure

Be able to pay attention to details

Be willing to work with and around others

Be willing to work in view of customers

Be able to organize work rapidly

Move fingers and hands rapidly and accurately

Remember a large number of orders during lunch hours and other busy periods

Learn theory and techniques of food preparation

Work to prescribed standards

VIL JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Able to read recipes, labels, etc.

Math: Able to make change, write saleschecks

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Verbal: Able to communicate with customers and co-workers

. Written: Able to write saleschecks

ADDITIONAL JOB INFORMATION:

 Disadvantages: Limited advancement opportunities. Weekend and holiday work often required Subject to burns and cuts

- 2) Advantages: Meals, uniforms, laundry provided Paid holidays and sick leave
- 3) Training opportunities: On the job Vocational Schools

IX. EVALUATION: As determined by team of teachers

OCCUPATION: Counter Person/Short Order Cook

NO. 5 TOOLS, EQUIPMENT SUPPLIES

Bread

Coffee

Cake

Pies

Eaas

Hot dogs

Hamburgers

Place mats

Knives

Forks

Plates

Bowls

Cups

Saucers

Cash register

Sales slips

Manus

Spatula

Spoons

Sandwich fillings

Salad ingredients

Pancake hatter

NEW TERMINOLOGY MATH

TEXT. WORKBOOKS OTHER MATERIALS

... To become familiar with working conditions, skills and physical requirements of a counter worker

LEARNING GOALS

... To know how to set a table

... To be able to prepare all menu items

... To learn how to take an order, tally check and make change

... Make and serve sandwiches salads, beverages

LEARNING ACTIVITIES

... Cut cakes and pies

... Cook hamburgers, hot dogs eggs, pancakes, and french fried, arilled cheese, bacon

... Place place mat, silverware, cup, plate in front of customer

... Take orders from customer

... Add check and make change

... Total orders on cash reaister

... Make change using "counting back" method

... Write up orders

... Make malted mild and milk shakes

... Serve food across gounter ... Prepare Breakfast meats

a) Sausage

b) Bacon

c) Ham

... Prepare potatoes

a) Hash brown

b) Home fries

... Prepare eggs

a) Fried

b) Poached

c) Scrambled

d) Omelet

... Prepare Breads

a) Pancakes

b) Waffles

c) French Toast

d) Toast

e) Muffins

f) English Muffins

... Prepare Cereals

a) Hot

b) Cold

... Prepare juices

Orange, grape, grapefruit, etc.

MATH' Addition Multiplication ' "Counting back" method

> VOCABULARY ~ a la mode souffle

Food Preparation. McGraw, Hill Mathematics in Living Pruett Press Porfessional Restaurant . Service, McGraw Hill

Mathematics for Employment Mafex

Commercial Foods Mathematics, Rutgers University

FIELD TRIPS McDonalds Friendly's Jack-in-the-Box

Teacher and student made ma terials "

245

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COURSE: Exploring Food Trades

OCCUPATION: Counter Person/Short Order cook

NO. 5 (Continued)

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
	Choices of assignments for motivation, evaluation, and acquiring of additional knowledge and skills of the Count-	·		`
•	er person/short order cook		,	
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I. JOB TITLE: Cashier

IL JOB DUTIES:

Complete bills, itemized lists, tickets indicating amount due
Make change, cash checks and issue receipts to customers
Record amounts received and spent and prepare reports of transactions
Read and record totals on cash register and verify against cash on hand
Give cash refunds and issue credit slips.
Operate ticket dispensing machine
Sell candy, gum and cigarettes
Issue trading stamps and wrap packages
Prepare cash and checks for bank deposits
Prepare sales tax reports, pay envelopes and charge slips

IIL WORKING CONDITIONS:

Work indoors and around others

Work may be performed in small booths or enclosure or behind a counter

Be exposed to variations in temperature if work station is near entrance of establishment

IV. JOB REQUIREMENTS:

Move arms, hands and fingers quickly and abcurately
Follow instructions and established procedure
Pay attention to details and avoid clerical errors
Pass pre-employment examination in arithmetic and clerical skills
Complete on-the-job training of 1 to 2 weeks
Tactful and courteous to customers
Able to work under pressure
Accuracy
Follow routine practices and do repetitious work
Be bondable

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VL BASIC SKILLS AMD KNOWLEDGE:

Knowledge of cash register operation, knowledge of other machines desirable Legible handwriting

Dexterity in setting up menu board

VII. JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Be able to read sales slips and menus

Math: Proficient in basic arithmetic

Operate cash register, make change

Verbal: Be able to communicate with customers and other employees

Written: Write charge slips and tally daily receipts

ADDITIONAL JOB INFORMATION:

- Disadvantages: May have to work weedends, holidays and evenings.
 Working quarters may be cramped
 May have to work up cash shortages
- 2) Advantages: Employment is year-round Part-time work may be available
- 3) Training opportunities: On the job

IX. EVALUATION: As determined by team of teachers

OCCUPATION: Cashier

NO.	6
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LEARNING GOALS To be aware of working conditions, skills and requirements of job To become familiar with the cash register To be able to make change and issue receipts	LEARNING ACTIVITIES Use cash register to tally sales checks and add tax. Make change using "counting back" method "Open up" cash register with change fund "Close out" cash register with proof of cash Prepare menu board Choices of assignments for motivation, evaluation and acquiring additional knowledge and skills as a cashier	Cash register Supplies Cash register Sales slips, receipt Money Register tape Detail tape Money box Credit card machine Tax rate table	"Counting back" Checks Sales tax Credit card Starting Bank Clearing Money denominations Basic math	TEXT, WORKBOOKS OTHER MATERIALS Commercial Foods Mathematics, Rutgers University Mathematics in Living Pruett Press Target Series, Mafex TRANSPARENCIES Credit card and sales slips, Teacher Made FIELD TRIPS Charlie's K-Ranch Grandma's Pies
				- Teacher Made Materials
25.			2	52

L JOB.TITLE: Chef/Cook

II. JOB-DUTIES:

Responsible for preparation and service of all food

Responsible to restaurant manager

Responsible for supervision of all kitchen staff

May plan menus and consumption estimates; order necessary supplies

May train cooks

Create new recipes

Know each job in the kitchen

III. WORKING CONDITIONS:

Usually in well-lighted, well equiped, ventilated kitchens

Usually has office or desk of his own

During cooking and serving time kitchen may be hot and noisy

Prope to burns and cuts

Under pressure at peak serving times; must be able to cope with emergencies

May work holidays/rotating shifts and days off

Must stand for long periods of time

IV. JOB REQUIREMENTS:

Experience might be a factor

Possible union membership

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VI BASIC SKILLS AND KNOWLEDGE:

Interest in food preparation

Creative talents

Excellent memory

Good manual dexterity, hand-eye coordination

Business skills helpful

VIL JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Must be able to reed recipes, menus, etc.

Math: Must be proficient

Verbal: Must be able to communicate with employees

Written: Must be able to write out recipes

ADDITIONAL JOB INFORMATION:

- Disadvantages: Kitchen is hot and noisy-Must stand for long periods of time Rotating shifts
- 2) Advantages: High pay
- 3) Training opportunities: On the job Vocational School Restaurant/ hotel training schools



COURSE: Exploring Food Trades

OCCUPATION: Cook/Chef.

LEARNING GOALS

LEARNING ACTIVITIES

TOOLS, EQUIPMENT **SUPPLIES**

NEW TERMINOLOGY MATH

TEXT: WORKBOOKS OTHER MATERIALS

... To-know how to prepare vegetables and fruits

... To know how to prepare meats

... To know how to slice meats

... Be familiar with seasonings and spices

... Be able to understand recipe terms

... To know safety and sanitary rules

... To become familiar with working conditions

... Understand skills and physical requirements

... Be able to use garnishes effectively

... Be thoroughly acquainted with all jobs in the kitchen

... Be able to order supplies

... Be able to price portions

... Basic knowledge of meal planning

... Be able to delegate jobs ... Be able to develop new

recipes

a) Boil

b) Fry-saute'

c) Cream or other sauces

... Cook various vegetables

d) Bake

e) Casseroles

... Use spices, seasonings and flavoring

... Cook and prepare fruits for salads and meat accompaniments

a) Roast-bake

b) Frv

c) Boil

d) Casseroles

e) Gravies

... Cook pasta's, rice, potatoes

... Prepare sauces

... Cook eggs

a) Omeletes

b) Frv

c) Boil

d) Scramble

e) Souffle'

f) Custard

a) Poach

... See learning activities for all jobs

... Order supplies for food to be served

... Price food portions and recipe costs

... Plan menus

... Plan work for others

... view films and filmstrips, discuss, and write an evaluation

... Choices of assignments for motivation, evaluation and acquiring additional skills and knowledge as a chef

All tools, equipment and supplies found in a kitchen **VOCABULARY**

Saute' Cream

NO. 7

All types of spices and sezsoninas.

Broil

Grill

Sauce Whip

Mix

Bland

Simmer

Boil

Roux

Deglaze

Crepe

Croquette

Crouton

Falmbe .

Gratin

Kabob

Marinate

MATH

Multiplication

Division

Fractions

Controlled proportions

Weights, measure, quantity

Food for Fifty

Meal Planning. Bennett Co.

McCalls Cook Book

Our Second Foods Book

Rutgers University Joy of Cooking

Food Preparation

McGraw Hill

Professional Restaurant

Sarvica

McGraw Hill

Our First Foods Book

Rutgers University

Being a Food Service Worker,

Hospital, Research & Ed.

Trust

FILMSTRIPS

Convenience Cooking

Mealtime Can Be Magic

Mix and Match for Good

Meals

Identification of Kinds of

Meat

Organizing and Preparing Meals

Serving Meals Attractively

Storing Food, McGraw Hill

FILMS

Profitable Port

Selection

Home Sweet Home Style

The New Port

1001 Pineapples

The Romance of Cheese

Fresh Chilled Sunshine

R.S.V.P.

Macaroni Menu Magic

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COURSE: Exploring Food Trades

OCCUPATION: Cook/Chef (Continued)

NO. 7 (Continued)

				•
LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
				Selecting and Preparing Beef Now is the Time Citrus in Motion The Arts and Secrets of Chinese Cookery The Kitchen Keyboard
				Food for Thought Rajah of Spices Wonderful World of Flavor
	• ,		·	FILM LOOP Cooks & Chefs, Encyclope- dia Britannica
				FIELD TRIPS I.B.M. Kitchen Reader's Digest Silver Moon Resterant
				Teacher Made Materials
		, .	San a	
		<i>S</i> .		
	256		2	57
ERIC	. ,			

I. JOB.TITLE: Steamtable Worker/Cafeteria Worker

IL JOB DUTIES:

Prepare all hot beverages, supply the cold beverage service area
Prepares coffee, tea, hot chocolate, iced tea
Fill beverage dispensers if used
Pour juices and other liquids as instructed
Insure sugar, cream, lemon containers filled
Clean beverage area and equipment
May help in other areas at needed
May help in pantry area as needed

III. WORKING CONDITIONS:

Well lighted, ventilated work area
Cooler area of kitchen to work in
Standing, bending, lifting
Work in relatively confined area
Subject to cuts and burns
Rotating shifts, days off; holiday work

IV. JOB REQUIREMENTS:

No experience needed

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VI. BASIC SKILLS AND KNOWLEDGE:

Quick efficient; hand/finger dexterity
Hand-eye coordination
Good memory
Able to follow instruction

VII. JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Able to read printed menu, food lists, can and package labels

Math: Simple math computations; number of slices of bread, number of sandwiches sold

Verbal: Able to be adequately understood by co-workers.

Working knowledge of English so instructions may be understood

Written:

ADDITIONAL JOB INFORMATION:

- 1) Disadvantages: Usually more demand than jobs available
- 2) Advantages: Good entry job for a young person in the food preparation trade
- 3) Training opportunities: On the job

IX. EVALUATION: As determined by teachers

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OCCUPATION: Cafeteria Worker/Steamtable Worker

~ LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
To know the physical requirements and skills needed to work at a steamtable To know the working conditions of a steamtable worker— To be able to prepare hot beverage To know how to serve equal portions To know how to set up and clean up a cafeteria line To be able to prepare selected cafeteria foods	Portion foods to be served a) Count b) Cutting into equal size c) Use of scoop d) Use of scale je) Use of measuring cups Setting up steamtable Cleaning up area Choices of assignments for motivation, evaluation and acquiring of additional knowledge and skills of the cafeteria worker	Measuring equipment Spoons Cups Ladle Scoop Scale Knife Cutting board Plates Dishes Foods Soups Meats Vegetables Fruits	VOCABULARY Scoop Ladle Cutting board MATH Counting Dividing	Food Service, John W. Stokes Professional Restaurant Service McGraw Hill Commercial Foods Mathematics, Rutgers Univer-
,				Teacher Made Material
,				,
,	259	,	260	
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L JOB TITLE: Waiter/Waitress

II. JOB DUTIES:

Waits on patrons at tables or booths

Takes orders verbally or writes out itemized orders

May make suggestions regarding food, wine and liquor

Sets table, serves food and removes dishes

Carries food and beverages from kitchen to dining room on arm, tray or food cart

May prepare salads and dressings, may carre, bone, flambe', etc.

Computes check or bill for food served

May accept payment and make change or get change from cashier.

May clean and refill sugar bowl, condiment containers and other equipment

May be required to relieve at counter

May work on room service in hotels

III. WORKING CONDITIONS:

Pressure during usual meal hours

Constant standing and walking, often in congested areas

In resorts, may have to sleep in dormitories and work 7 days a week

IV. JOB REQUIREMENTS:

Experience as bus boy or bus girl or waiting on tables is usually required School dining hall experience is acceptable in resort hotels

Experience and local references are usually required in year-round hotels and in restaurants Must be at least 18 years old where alcoholic beverages are served May have to provide own uniforms

Good grooming is important

Should be tactful, alert, courteous, and able to deal with people Must be able to fill orders correctly

Knowledge of simple arithmetic is required

Must be able to read, write and understand English

V. JOB CONDITIONS:

Determined by field trips, guest speakers, etc.

VI. BASIC SKILLS AND KNOWLEDGE:

Know how to set tables, serve food; prepare salads and arrange them; compute checks Sometines make change

VIL JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Be able to read menus

Math: Be able to make change, compute sales tax

Verbal: Be able to communicate with customers and other employees

Written: Must be able to write orders, charge slips

ADDITIONAL JOB INFORMATION:

- 1) Disadvantages: Must be able to stand for long periods of time
- 2) Advantages: Meals may be provided plus tips
- 3) Training opportunities: On the job Vocational Schools

IX. EVALUATION: As determined by team of teachers

OCCUPATION: Waiter/Waitress (Busboy/Busgirl)

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LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
To be able to perform the duties of waiter/waitress To become familiar with the working conditions To be able to deal with customers politely and in a mature manner	Practice setting tables Practice taking orders (written and verbal) Practice writing and tally- ing sales slips Practice serving food Practice serving food Practice spelling menu terms Serve customers Clear table after entree and before dessert Practice filling water glass Practice filling water glass Practice stacking, removing and bringing soiled dishes to dishwashing area Practice cleaning table before waitress brings dessert choices of assignments for motivation, evaluation, and acquiring of additional skills and knowledge in these occupations View films and filmstrips, discuss and complete ditto sheet questions or write an evaluation	Place mats Knives Forks Spoons Plates Cups Saucers Menu Condiments Trays Sales books Napkins Glasses	Condiments A la carte Carte du jour Entree Hors d'oeuvres Mixed grill Smorgasbord Table d'hote menu MATH See Cashier	Professional Restaurant Service, McGraw Hill Mathematics For Employment, Mafex Busboy Training Book, Restaurant Hotel Aids FILMSTRIPS Serve 'Em Right Cinderella's Three Sisters Training Program Fast Food Service FILM LOOPS Waiter/Waitress, Encyclopedia Britannica FIELD TRIPS Charlie's K-Ranch Friendly's Joy Luck May Wah Grandma's Pies FILMSTRIPS & RECORDS Six Keys to Being a Better Waitress Restaurant-Hotel Aids Six Keys to being a Better Waiter, Restaurant-Hotel Aids Jack and The Beanplate
		•		Restaurant-Hotel Aids Wall the Willing Waiter, Restaurant-Hotel Aids Teacher Made Materials
9	oco.		263	

ERIC Full Text Provided by ERIC

I. JOB TITLE: Baker

IL. JOB DUTIES:

Responsible for making all yeast products, cakes and pastries
Responsible for entire bakery shop; reponsible to the restaurant manager
Bakes breads, rolls and other yeast products
Prepares and bakes cookies, cakes and pastries
Cake decorating
Orders necessary supplies for his operation
Responsible for all bakery department employees
Supervises and trains employees
May create new recipes

III. WORKING CONDITIONS:

Works in separate part of kitcher:

Clean, well-lighted, well-ventilated area but may be hot during baking time...

Standing, stooping, lifting heavy pans and trays...

Working day generally begins before dawn, if restaurant/hotel operation serves homemade products at breakfast meal. Shift then ends earlier in the day

May work rotating shifts, days off; holidays. weekend work

IV. JOB REQUIREMENTS:

18 years of age to begin training or apprenticeship May be required to belong to a union

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VI. BASIC SKILLS AND KNOWLEDGE:

Same as those required for chef Basic cooking skills, terms, methods

VIL. JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Average reading ability; able to read and enterpret recipes, menus, trade journals, cost sheets,

inventory sheets

Math: Average math ability; able to compute costs, supplies needed, quantity dry and liquid mea-

surements and weights

Verbal: Able to be understood by workers, ability to comprehend managers instructions

ADDITIONAL JOB INFORMATION:

- 1) Disadvantages: Weekend/holiday work
 Rotating shifts/days off; first shift would begin before dawn
 Standing, walking, lifting
 Generally warm, yeasty, sweet odors in spite of ventilation
- 2) Advantages: Steady, constant demand for skilled bakers Chance for advancement with increased experience and skills Good employee benefits
- 3) Training opportunities: On the job Vocational/trade schools Restaurant/hotel schools
 Armed forces
 Apprenticeship program

IX. EVALUATION: As determined by team of teachers

I. JOB TITLE: Baker's Helper

IL JOB DUTIES:

Assists baker in all baking operations as well as responsible for cleaning of the baking area,

Follows baker's instructions/orders

Measures ingredients

Prepares necessary ingredients

Lines, greases and prepares baking utensils Mixes, stirs, kneeds quantites of dough, etc.

Uses timer or watch to time baking Prepares decorative frostings Assits in pantry area as needed

Washes utensils, wipes up spills, mops floors

III. WORKING CONDITIONS:

Same as for baker !

IV. JOB REQUIREMENTS:

18 years of age

Be able to follow directions of baker

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VI. BASIC SKILLS AND KNOWLEDGE:

Same as those for baker

VIL JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Able to read recipes, food packages, baking supplies and instructions on equipment

Math: Basic skills required as baker's helper

Must be able to count consecutively

Verbal: Able to be understood by fellow workers

Must be able to understand managers

Written:

ADDITIONAL JOB INFORMATION:

1) Disadvantages: Same as baker

2) Advantages: Same as baker

3) Training opportunities: Same as baker

IX: EVALUATION: As determined by team of teachers

OCCUPATION: Baker and Baker's Helper

LE ADMING COALS	I E ADAUNIC ACCIVITIES	TOOLS, EQUIPMENT	NEW TERMINOLOGY	TEXT, WORKBOOKS
LEARNING GOALS	LEARNING ACTIVITIES	SUPPLIES	<u>MATH</u>	OTHER MATERIALS
Identify various types	Bake cakes	Measuring utensils	VOCABULARY	McCalls Cook Book
of baked goods	a) Othe egy canus	Bowl	Mix	
Know their differences	b) Two egg cakes	Mixing spoons	Stir	Elementary Baking,
and similarities	c) sponge .	Sifter	Beat	McGraw Hill
Be aware of the impor-	d) Angel	Wax paper	Blend	Joy of Cooking
tances of safe work habits, ~	e) Pound	Hand and electric mixers	Cream	Commercial Foods
handling equipment	f) Spice cakes	Baking pans	Cake Tester	Mathematics
Be aware of the im-	g) Fruit cakes	Rubber scrapers	Thermostat	Rutgers University
portance of proper sanita-	h) Jelly rolls	Scale	Confectioner's sugar	Our Second Foods Book
tion	i) Ice cream cakes	Cake racks	Knead	Rutgers University
Be able to interpret	(j) Cupcakes	Cake tester	Proof	
a recipe and understand	Bake Breads	Cupcake pans	Gluten	Cake and Food Decorating
the terminology	a) yeast breads	Flour	Yeast	Yearbook
Know the skills and	b) sweet yeast bread	Baking powder	Fold	Wilton Enterprises
physical requirements need-	c) rolls	Baking soda	Cut in	Food Preparation
ed to be a baker	d) pastries	Eggs	Sift	McGraw Hill
Be aware of the working	e) yeast batter breads	Milk .	Stir	74.140777.77
conditions	Bake cokies	Sugar	Carmelize	FILMSTRIPS
Be able to apply for a	. a) drop	Shortening	Roll out	Beautiful Cakes
job	b) sugar c) rolled	Salt Flavorings	Scald Trim	Fun with Frostings Flair with Frostings & Des-
	d) pressed	Spices	Prick	serts
	e) filled	Fruits	Tea breads	Convenient Creations
	f) refrigerator	Sauce pan	164 DL6402	Breads You Bake with Yeast
	Make a pie crust	Rolling pin	MATH .	Cookie Wise
	a) baked single or double	pastry cloth	Measure	Easy as Pie
	b) refrigerated	Pastry bag	Fractions	Biscuits
	Propare pie fillings	Thermometer	Practions	Batter Breads
	a) cooked	Yeast		Muffin Making
•	b) no bake	Water	İ	multin making
	c) cream	Pastry blender	1	FILMS
	d) refrigerated	Cookie press	j	The Art of Cake Making
	Make various types of quick	Cookie cutters	1	Wonderland of Bread
• , **	breads	Cookie sheets	İ	As American As Apple Pie
	a) muffins	Nuts		
	b) biscuits	Chocolate bits		- FIELD TRIPS
	c) popovers	Pie pans		Luna Bakeries
•	d) pancakes	Loaf pans		Carvel
	e) tea breads	Muffin tins	•	I.B.M. Kitchen
. •	f) doughnuts			Arnold Bakeries ·
	Measuring liquid and dry	i		
	ingredients	}	1	
·	following instructions given		,	1
•	in a particular recipe		1	1
` i	Prepare pans			257
900	Prepare fillings, cooked and	*	1	100
256	uncooked	t	1	1
	· Prepare frosting and icings		1	
0	l	i	i	

COURSE: Exploring Food Trades

OCCUPATION: Baker and Baker's Helper

NO. 10 Continued

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
S.	I. Cream 2. Butter 3. Royale b) Cooked 1. Fudge 2. Cooked white 3. Boiled o) Glaze Prepare puff pastry and turnovers View filmstrips, discuss and complete teacher made ditto sheets Choices of assignments for motivation, evaluation, and acquiring of additional knowledge and procedures of Baker			•
<i>o</i> .				
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Trade: Food

L JOB.TITLE: Kitchen Helper

IL. JOB DUTIES:

Assists in the preparation and cooking of foods in large quantities in public dining rooms or institutions May be male or female

Prepare vegetables, fruits for cooking or salads

Gather ingredients, 'equipment, open cans and packages

Watch, stir cooking food; time foods during preparation using timer or clock

Store or shelve dishes, cooking utensils, silver

Mop floors; clean up breakage, spills

May serve as a relief person

May make sandwiches and wrap food for carry out

May help make desserts

IIL. WORKING CONDITIONS:

Usually in wall-lightes, well-equiped, ventilated kitchen
During cooking and serving time kitchen may be hot and noisy
Worker prone to burns and cuts
Worker will be under pressure at peak of serving time
Work rotating shifts and days off; may work holidays
Standing, walking, lifting during entire shift

IV. JOB REQUIREMENTS:

18 years of age
Generally work in some area of kitchen a prerequisite

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VL BASIC SKILLS AND KNOWLEDGE:

Interest in food preparation Good memory Hand-finger agility: Hand-eye coordination

VII. JOB PRACTICE:

Shop and laboratory experiences

VIII. ACADEMIC DEMANDS:

Reading: Minimum

Able to read can and package labels
Able to read printed instructions

Mark! B

Basic computations

Understand liquid and dry measurements

erbal: Must be able to speak English

Able to be understood by co-workers Comprehend verbal instuctions

Written:

ADDITIONAL JOB INFORMATION:

- Disadvantages: Weekend/holiday work Rotating shifts and day off Standing, walking, lifting during entire shift Generally quite warm, noisy
- 2) Advantages: Steady, constant employment opportunities Good chance of advancement Good employee benefits as full-time employee.
- 3) Training opportunities: On the job Vocational Schools Restaurant or hotel training programs

 Armed Forces

IK. EVALUATION: As determined by team of teachers

NO. 11

OCCOPATION: KITCHEII THE	aper.		110. 11	
	LEARNING ACTIVITIES	TOOLS, EQUIPMENT	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
LEARNING GOALS To learn various jobs in a foods operation To become acquainted with all equipment in a kitchen Know safety and sanitation rules	See learning activities for Short Order Cook, Salad Maker, Sandwich Maker, Cook, and Beverage Maker Assist others in preparing foods	SUPPLIES	MAIN.	See individual job sheets Commercial Foods Mathematics Rutgers University
To know how to prepare fruits and vegetables for cooking and salads To learn to cook all types of foods To become familiar with working conditions To know physical demands of the job				•
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ERIC

HORTICULTURE/FLORICULTURE OCCUPATIONS

OCCUPATIONAL READINESS CENTER

COURSE: HORTICULTURE/FLORICULTURE

UNITS:

First Quarter:

Landscaper (Helper) Groundskeeper, Gardner, Greenskeeper

Nursery Worker (Helper) Florist (Helper)

Greenhouse Worker (Helper)

Second Quarter: Same asysfirst Quarter.

Third Quarter: Same as First Quarter.

Fourth Quarter: Same as First Quarter.

JOB PROFILE WORKSHEET

I. JOB TITLE:

(Landscaper Helper)

II. JOB DUTIES:

Plan lawns, floral arrangements and landscaping

on public and private grounds

Prepare and grade terrain and apply fertilizers,

seeds and sod to revitalize lawns Plant shrubs, trees and flowers Transplant shrubs and plants

Mow and trim lawns

Trim and spray trees and shrubs

Clean rounds

III. WORKING CONDITIONS:

Out of doors

All kinds of weather
Subject to strenuous work
Seasonal work - irregular hours

IV. JOB REQUIREMENTS:

Be at least 18 years of age

Desirable to have some knowledge about plans

Possess N.Y. State driver's license and be able to drive a light truck

General interest in out of doors

Like doing routine work for long periods

V. JOB CONDITIONS:

Determined by field trips, quest speakers, etc.

VI. BASIC SKILLS & KNOWLEDGE:

Be able to understand oral and written direction

Creat attractive arrangements using plants, shrubs and flowers

Be friendly and courteous in dealing with customers

VII. JOB PRACTICE:

Design and execution of various landscape projects

Constructing and maintaining turf plots

Pruning, fertilizing and spraying existing plants

VIII. ACADEMIC DEMANDS

Reading: Minimum reading level 5th-6th grade...

Math: Basic knowledge of measurements - cubic,

volume, liquid measurement

Lang. Arts: Verbal: Be able to understand and communicate

with and to others

Written: Be able to understand written instructions, labels, directions

Be able to understand safety precautions as with insecticide, fertilizers

ADDITIONAL JOB INFORMATION:

' Job Locations:

Farms

Landscape Contractors

County Estates

Federal State, and City Parks and Highways

Retail or Wholesale Nurseries

OCCUPATION: Landscaper (Helper)

... Research of charts and

			,	•
•	•			· ;
LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATII	TEXT, WORKBOOKS, OTHER MATERIALS
Make students aware of	Discuss safety	Rakes	Turf	Lawns and Groundcovers Sun-
safet <u>y</u> hazards involved in	Indicate specific hazards of	Shovels	Tilling	set
agricultural work and use of	tiller, power mower, hand	Ное	Fertilizer	A guide to Field
tools and equipment	saws, axes etc.	Wheelbarrow	10-6-4	Identification of Trees of No.
To be able to identify and	Show safety films	Saws, hand	Mulch	American
know how to use landscaping	Plant and transplant trees	Burlap	Annuals	Golden Press
tools and equipment safely	and shrubs	Seeds, grass and plant	Perennials	Fundamentals of Plant
To become familiar with	a) Dig and ball live trees .	Gravel	Evergreen	Identification, Ohio
the duties of a landscaper	and shrubs	Charts	Conifer	University Press
(helper)	b) Bare root	Pictures	Deciduous	Ideas for Landscaping,
To become familiar with	c) Staking	Graph paper	Broadleaf	Sunset
the different types of trees	d) Mulching	Crayons	Pith	How to Grow Annuals,
and shrubs	Prune small trees and	Seed catalogues	Cambium	Sunset
To become familiar with	shrubs	Rulers	Transplant 1	How to Grow House Plants
the proper planting and trans-	Create different types of	Landscape kits	Landscape	Sunset
planting methods for trees and	gardens	String	Site	Landscape Design
shrubs	a) Rock garden	Measuring tape	Plot	University of Pennsylvania
To become familiar with	b) Vegetable garden	Stakes	Top dress	Turfgrass Maintenance and Es-
the characteristics of different	c) Annual garden	Hose	Terrain	tablishment
kinds of flowers, vegetables	d) Perennial garden	Flower pots	Bare root	University of Penn.
and weeds	e) Miniature garden	Plants	Ball root	Landscape Maintenance and
To become familiar with	Force bulbs, trees, and	Pruners (Easement	Establishment
the uses of plants in different	plants	Charts	Drainage	University of Penn.
landscaping sites	Practice lawn upkeep around		Corrated	Trees for Landscaping,
To become familiar with	building	1	Cord	Ohio University
site and plot planning	Cut and transplant sod	İ	Corms	Landscaping Your Home
To become familiar with	Top dress lawns around	1	Budding	Ohio University
maintenance of grounds	building	ł	Graft	
To become familiar with	View pictures and films		Tefminal	MAGAZINES
seasonal maps and charts	for identification of insects	1 .	Opposite	Better Homes & Gardens
To become familiar with	and complete teacher made	1	Prune	Horticulture
billing procedures	ditto	1 -	Force	House & Garden
To become familiar with	Collect, identify, and clas- ,	1	Sod	Organic Gardening
basic insects	sify bark, buds, wood, leaves,	1	Wood round	Flower & Garden
·	and soods	1	Terrarium	Landscape
1	On site observation to	1	Accessibility	Plants Alive
	determine -shapes, colors, size		Rotation	1 1011110 211110
1	and use of trees, shrub and	1	Seasonal	FILMS
onk		<u> </u>	Miniature	Saga of Safety Sam, BOCES
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ERIC

Full Text Provided by ERIC

COURSE: Horticulture/Floriculture ...

LEARNING GOALS

OCCUPATION: Landscaper (Helper) Continued

NO. 1

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LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS, OTHER MATERIALS
books for identification of		Maintenance	Split Second from Disaster
trees, shrubs, and plants			BOCES
Sand and finish wood		MATH	It Didn't Have to Happen
rounds	1 - '	Measurement "	BOCES
Make a jourant of plant	•	Volume	Don't Push Your Luck
identification projects	1	Depth	BOCES
a) Leaf rubs	1	Weight	
b) Drawings	· ·	Scales	·· SLIDES
c) Leaf ironings		Diameter .	All of the following available
d) Charts		İ	from Cornell Department of
Cut and stack a cord of	1	i	Education:
wood		İ	Plant Diseases Around the
Discuss different factors of		1	Home and Grounds
the land	1		Effect of Air Pollution on
a) Type of soil		1	Flowering
b) Vegetative growth		1	Shrubs and Plant Life
c) Water available			Institutional Landscaping
d) Drainage	1		Landscaping the Home Ground
e) Rock ledges		1	Types of Turf
f) Easements	» · .	1.	Lawn Care and Management
g) Terrain		1	Exploring Turf Occupations
h) Accessibility	1	-	Lawn weed Identification
Create miniature landscape	Í	1	Commonly Used Trees, Shrubs,
projects using kits and live	,	1 ·	Groundcover and Vines
plants		1	. Olumnover and vines
Design and create terrariums	1 '	1	Soil and Its Properties
Construct and repair dry	,	ł ,	Ohio University
stone walls	1	1	
Rotary till and grade garden		1	TRANSPARENCIES
area		1	All available from Cornell
Chart rotation of crops,	1	1	Department of Education:
plants and seasonal growth	1	1.	Ground Maintenance and Con-
Design and draw landscape	1	1	struction
plan for a given plot	1	1 .	Plant Identification
Seed plot	1	1	Plant Identification Plant Propagation
Plant, grow and transplant	. 1	f ·	
plants to be used in land-			Pruning and Training Plants
scape plan	1 · · · · · · · · · · · · · · · · · · ·	Γ ,	OMA
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OCCUPATION: Landscaper (Helper) Continued

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATII	TEXT, WORKBOOKS, OTHER MATERIALS
	Landscape plot Practice ordering supplies by mail and telephone using cata- logs Practice billing procedures a) Sales slips b) Charge and cash c) Credit cards d) Making change View films and loops and complete teacher made ditto			FILMSTRIPS All available from Cornell Department of Education Using Power Lawn Mowers Safely Garden Flowers-Annuals I & II Foliage Plant Identification Balling and Burlapping Trees and Shrubs Landscaping Do's and Don't's
	sheet for each Choices of assignments for motivation, evaluation and ac- quiring of additional know- ledge and skills		•	FILM LOOPS All available from Encyclopedia Britannica Forestry Aides Handling Garden Tools Safely Safety Rules with Outdoor Plants Snake Bite with Kit Plant Poisoning
				FIELD TRIPS Rosedale Nursery Wilkins Fruit Farm D'Agostino's I.B.M. Grounds Brooklyn Botanic Garden, Kitchawan Research Laboratory
ERIC	280		281	PAMPHLETS All available from Cornell Department of Education; Lawn and Landscaping Insects, Diseases and Pests of Land- scape Plantings Soils Recommended Annual Flowers The Rock Garden How to the A Terrarium Landscap

JOB PROFILE WORKSHEET

I. JOB-TITLE:

Groundskeeper

II. JOB DUTIES:

Year round maintenance of grounds, such as parks, private and

public, golf courses, cemeteries, etc.

Weeding, feeding, cutting, trimming, watering, mowing, rolling of

established lawns, greens, etc.

Trimming and pruning of trees and shrubs. Removal of debris,

garbage, leaves, snow and any items which might detract from

general appearance of grounds

Gardens - creating and upkeep

III. WORKING CONDITIONS:

Almost exclusively outdoors, all year round (although some

positions are seasonal)

Pay is salaried with good benefits and vacation time in year

round commercial or institutional positions

In residential or private situations may include room and board

as well as salary

In seasonal situations pay will be hourly and benefits fewer or non-

existent

No fixed schedule, things must be done as needed, often dirty and

repetitive in nature.

IV. JOB REQUIREMENTS:

Of working age. H.S. diploma helpful but not required

Physically reasonably well endowed

Some knowledge lawn care practices and establishment (groundskeeping),

helpful but not necessary

V. JOB CONDITIONS:

Determined by field trips, guest speakers, etc.

VI. BASIC SKILLS & KNOWLEDGE:

Physically able

Ability to work independently and generally self-motivated and responsible

Knowledge of simple tools and machinery

Basic techniques of lawn, gardening, shrubs, tree care, pruning helpful but

not necessary

Math:

VII. JOB PRACTICE:

Shop and laboratory experiences.

VIII. A CADEMIC DEMANDS:

Reading: Minimal - operation instructions and applications

of equipment and materials. Relevant charts and tables.

.

Simple computations - mixtures to specifications, determining

settings on feeders, spreaders, etc., by using charts and tables.

Lang, Arts. Verbal: Terminology of equipment and materials for purposes

of ordering, records of use and communication of instructions

from supervisor.

JOR PROFILE WORKSHEET CONTINUEL

ADDITIONAL JOB INFORMATION:

- 1. Disadvantages: Repetitive tasks, basically physical work that involves getting dirty.

 Since skills are minimal, can be easily replaced.
- 2. Advantages: Outdoor work, fresh air and exercise
 Steady year round employment, work at own pace
 Good employee benefits
 Good chance for advancement with continuous employment
 and experience
- 3. Training opportunities: Vocational, trade school, on the job

IX. EVALUATION:

As determined by teachers

NO. 2

OCCUPATION: Groundskeeper, Gardener and Greenskeeper

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS, OTHER MATERIALS
Make studnents aware of	Discuss safety	Shovels	Height	Better Homes and Gardens
safety hazards involved in	Discuss specific hazards of	Rakes	Depth ` ` ·	Gardenbook, McGraw Hill
Groundskeeper work	machines	Rotary tiller	Drainage	Landscape Manual
To become familiar with *	View safety films, discuss	Lawn mower .	Phosphorous	University of PA.
duties of a Greenskeeper and	and write an evaluation	Edger	Nitrogen	
Groundskeeper , ;	Cultivate soil ,	Fertilizer	Potash	SLIDES
To become familiar with	Prepare soil	Lime	Seed names	Types of Turf
cultivation using hand tools	grade	Hose .	Turf	Ohio University
ánd rotary tiller	test ·	Wheelbarrow	Zoysia	Lawn Care and Management
To become familiar with	fertiliz e	Seeds	Bent	Cornel Ed. Dept.
lawn preparation , *	seed	Soil Test Kits	Grading	Exploring Turf
To become familiar with	renovate	1	Renovate	Occupations, Cornel Education
maintaining lawns and grounds	Utilize site ·	'	` Cinch bug	Department
To become familiar with	a) Plan area	· `	Grubs , *	1
identification of grass	b) Maintain lawn		Plantain	` FILMSTRIPS
To become familiar with	water	1	° Clover	Lawn Weed Identification,
weed identification	mow _	,	•	Cornell Ed. Department
To become familiar with	' 'edge	•	*	Using Power Lawn Mowers
insect identification	· fortilize '		•	Safely, Cornell Education De-
	Collect, identify, and class-		1	' partment
•	ify different types of grasses		,	
_	bent		· ·	FILM LOOPS
•	crab grass			Handling Garden Tools
,	zoysia		,	Safely, Encyclopedia Britan-
•	Collect, identify and class-	'		nica
	ify different types of weeds .	•		TRANSPARENCIES
۵	Collect, identify and class-	·		Ground Maintenance
	ify different types of insects	•	ĺ	Construction, Cornell Educa-
,	Maintain trees and shrubs	,		tion Department
	· Choices of assignments for	,	A	Plant Identification
-	evaluation, motivation and ac-	·		Cornell Ed. Department
	quiring of additional knowl-			
	ledge and skills	·	•	FILMS
	View slides, filmstrips, loops			Saga of Safety Sam, BOCES
."	and transparencies and com-	` "	•	Split Second from Disaster
į.	plete teacher made dittos for	_	•	BQCES ·
` _	each		_	Don't Push Your Luck
281	•	,	_	BOCES
201			ı	
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COURSE: <u>Horticulture/Floriculture</u>

OCCUPATION: Groundskeeper, Gardener and Greenskeeper

NO. 2 (Continued)

LEARNING GOALS	LEARNING A CTIVITIĘS	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY . MATII	TEXT, WORKBOOKS, OTHER MATERIALS
				PAMPHLETS All of the following from Cornell Department of Education: Conservation
			,	Lawns and Landscaping Soils Tillage, Basic Principles
,				Teacher Made Materials
	·		•	,
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JOB PROFILE WORKSHEET

L. JOB TITLE:

"Nursery Worker (salesman & helper)

Amount of responsibility, salary writes under this job title depending

on ability and eagerness

II. JOB DUTIES:

Cares for nursery supplies and nursery stock

Loads and unloads and stores supplies, water plants and other live

nursery stock

Frequently aids in selling nursery stock and garden supplies Also general clean-up and maintenance of nursery center

III. WORKING CONDITIONS:

Outdoor work, lifting, carrying, a great deal of physical labor

Uniforms or coveralls are usually supplies as there are frequently times when hands and clothing will get soiled

Full-time work, which slackens and increases according to seasonal

demands

Employer paid benefits

IV. JOB REQUIREMENTS:

(Enjoy working outdoors and with plants)

Should have knowledge of garden tools and their uses

Some knowledge of plant identification and care

Some knowledge of shrubs and trees identification care

Some knowledge of fertilizer and insect sprays and mulches

· use and application

Knowledge of basic propagation techniques - cutting, layering,

division, etc.

Physically able to bend, climb, kneel, stoop; balance, crouch,

crawl; finger and feel; good vision and good hand-eye coordination

Use of power tools and hand tools

V. JOB CONDITIONS:

Determined by field trips, guest speakers, etc.

VI. BASIC SKILLS & KNOWLEDGE:

Soil mixtures: Sand, peat moss, perlite, vermiculite

Prepare plant beds

Planting seeds, seedlings and bulbs

Weeding and cultivating, watering, pruning, spraying and propagating

tursery stock

Transplanting stock for sale or shipment

Identify plants, trees, and shrubs - plant diseases

Physically able to carry out these tasks

Some knowledge and invoices, order forms, sales slips, running a cash

register

Pleasant helpful personality as they may frequently be called on to assist

customers

Use of power tools -

VII. JOB PRACTICE:

Shop and laboratory experience

JOB PROFILE WORKSHEET CONTINUED

VIII. A CADEMIC DEMANDS:

Reading: Able to read instructions on labels of items

sold. Follow and fill out forms such as invoices

shipping orders, sales slips, etc. Most instructions are verbal.

Math: Making change, basic math skills with emphasis

on basic geometry (shapes) measurements, ratios

and formulas

Lang. Arts.: Verbal: Terminology including tools, equipment

and nursery stock -able to understand and carry out detailed but uninvolved oral instructions. May frequently be required to assist customers.

Written: Minimal - completing sales slips, inventory sheets, written labels and tags for

stock.

 $\hat{\cdot}$:

OCCUPATION: Nursery Worker (Helper)

,		•		•
***************************************		TOOLS, EQUIPMENT	NEW TERMINOLOGY	TEXT, WORKBOOKS,
LEARNING GOALS	LEARNING ACTIVITIES	SUPPLIES	MATII	OTIER MATERIALS
Make students aware of	Discuss safety	Charts	Height	Know Your Trees
safety hazards involved in	Indicate specific hazards of	Pictures	Depth	Cornell Ed. Dept
agricultural work and use of	tiller, power mower hand	Books	Weight	Landscape Manual
tools and equipment	saws, axes, etc.	Burlap	Mulch "	Pennsylvania University
To be able to identify and	Show safety films	Ное	Trenching	Basic Gardening, Sunset Guide
know how to use tools and	Plant and transplant trees	Shovels	Hilling	to Organic Gardening, Sunset
nursery equipment safely	and shrubs	Wheelbarrows	Drip edge	· Pruning, Sunset
To become familiar with	a) Dig and ball trees	Tiller	Corms	The Nursery Worker
the duties of a nursery worker	and shrubs	· Saws	Budding	Parts I & II,1
(helper)	b) Bare root	Rakes	Grafts	Ohio University
To become familiar with	c) Staking -	Paper, graph	Terminal	Nursery Production,
the different types of trees	d) Mulching	Rulers	· Opposite	Pennsylvania University
and shrubs	Prune small trees and shrubs	Landscape kits	Opposite,	The Garden Center Worker
To become familiar with	Force bulbs, trees, and	Measuring tapes		Ohio University
the proper planting and trans-	plants	Plants	1 '	Omo omversity
planting methods for trees	Cut and transplant sod	Trees		SLIDES
and shrubs	Collect, identify, and class-	Hose ·	•	All of the following are avail-
•	ify bark, buds, wood, leaves,	Stakes		able from Ohio University:
To become familiar with	and seeds	String	1	- I
the characteristics of different	On site observation to	Crayons	1	Institutional Landscaping
kinds of flowers, vegetables	determine shapes, colors size	Seeds (,	Landscaping the Home Ground
and weeds	and use of trees, shrub and	Loppers		Designing With Flowers
To become familiar with	plants	Pruners	1	Land Decorative Materials
the uses of plants in different	Research of charts and	Files	1	Commonly Used Trees, Shrubs,
landscaping sites	books for identification of	r Hos	f	Groundcover, and Vines
To become familiar with	trees, shrubs, and plants	· '	1	Poinsetta
site and plot planning	Make a journal of plant	1.	1	Geranium
To become familiar with	identification projects		-	Soil and Its Properties
seasonal maps and charts	a) leaf rubs	1	1	All of the following available
To become familiar with	b) drawings	1	,	from Cornell Department of
billing procedures	c) leaf ironings	1	1	Education:
To become familiar with	d) charts	1	1	Plant Diseases Around The
basic insects	Discuss different factors of	1	1	Home and Grounds
1	the land	1	4	Effect of Air Pollution on
, , , , , , , , , , , , , , , , , , ,	a) type of soil .	1	, ***	Plant Life Flowering Shrubs
	b) vegetative growth	1.	4	**
	c) water available	1 %.	,	FILMSTRIPS
, , ,	1 '		,	Foiliage Plant Identification
290	d) drainage	1 1	,	Cornell Dept. of Education
40.	e) rock ledges		,	Balling, and Burlapping Trees

Balling, and Burlapping Trees

OCCUPATION: Nursery Worker (Helper) Continued

•	**			
LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS, OTHER MATERIALS
	f) easements g) terrain h) accessibility Create miniature landscape			and Shrubs Cornell Dept. of Education Landscaping Do's and Don't's Cornell Dept. of Education
	projects using kits and live plants Chart rotation of crops, plants and seasonal growth Plant, grow and transplant plants Practice ordering supplies by mail and telephone using catalogs Practice billing procedures.			FILM LOOPS All of the following are available from Encyclopedia Britannica Forestry Aides Handling Garden Tools Safely Safety Rules with Outdoor Plants Snake Bite with Kit Plant
	a) sales slips b) charge and cash c) credit cards d) making change View films, filmstrips, and slides and complete teacher made ditto sheet for each Choices of assignments for motivation, evaluation and ac- quiring of additional knowl- ledge and skills			Poisoning TRANSPARENCIES All of the following available from Cornell Department of Education: Plant Identification Plant Propagation Pruning and Training Plants
	. ,		·	·
	•		•	
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~JOB PROFILE WORKSHEET

I. JOB TITLE:

Florist Helper

II. JOB DUTIES:

Check flower supplies such as seeds, fertilizers, growing medias, corsage ribbons and pins. Select natural and artificial flowers and foliage for floral arrangements. Wire, pin and wrape stems with floral tape to form bouquets, corsages, sprays etc. Prepare floral arrangements, corsages etc.

Take orders for floral arrangements (also F.T.D.)

Sell orders to customers. Deliver orders. Maintain clean,

orderly work and display areas.

III. WORKING CONDITIONS:

Usually indoors

May be required to work overtime in peak periods Weekend and evening hours sometimes required

IV. JOB REQUIREMENTS:

Be able to stand for long periods of time

Have manipulative skills

Be 18 years of age or older

Prefer a driver's license

Be non-allergic to flowers and sprays

Be able to distinguish colors

V. JOB CONDITIONS:

Determined by field trips, guest speakers, etc.

VI. BASIC SKILLS & KNOWLEDGE:

Be able to handle and manipulate delicate materials and variety of tools rapidly and skillfully

Use imagination and good judgment in creating designs to suit particular

occasions.

Be able to communicate ideas verbally and through designs.

Basic math skills in proportions, sales slips.

VII. JOB PRACTICE:

Cut and strip flowers

Tape and prepare flowers for use in corsages and arrangements Prepare various styles of arrangements under supervision Maintain workshop and selling areas.

VIII. ACADEMIC DEMANDS:

Reading: Must be able to read well emagh to prepare orders,

understand instructions and communicate with others .

Math: Basic math of making change for customers and to

figure costs of materials for orders in specific price range.

Lang. Arts. Verbal: Must be able to communicate with others

✓ Take phone orders

Written: Write out orders

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Full text Provided by ERIC

JOB PROFILE WORKSHEET CONTINUED

ADDITIONAL JOB INFORMATION:

Job Locations:

Retail florists

Large retail greenhouses
Some garden centers

Workers may advance to: Shop Managers

Shop Managers
Self-employment
Can be trained on the job

OCCUPATION:

Florist (Helper)

NO. 4

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LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS, OTHER MATER IALS
To become familiar with the duties of a florist To become familiar with	Make dried and plastic flower arrangements Make corsages	Chicken Wire Pins Wires	Primary colors Secondary colors Complimentary colors	Better Homes and Garden Gardenbook, McGraw Hill
supplies, tools and techniques used by a Florist To become familiar with billing procedures, cash procedures, cash register and orders To become familiar with shop maintenance To become familiar with the creation of corsages, arrangements and Holiday decorations To become familiar with different plant identification To become familiar with greenhouse operation To become familiar with	Make holiday decorations green arrangements using different mediums wire soil Practice using telephone for ordering materials and taking orders Practice writing sales slips Practice writing sales slips Practice using cash register Practice making change Maintain shop and stock Plan for seasonal demands Identify using charts, bocks, manipulation a) Plants b) Flowers	Ribbons Fruit Flowers Cones Containers Charts Mediums oasis styrofoam Tables Order blanks Plants Bottles Bowls Soils Terrarium tools Tapes	Complimentary colors Holiday colors Names of flowers Names of greens Oasis Parts of flower sepal petal stamen stigma pistal caylx Perlite Peat moss Terrarium Follage Horizontal Vertical	SLIDES Floriculture Crops Ohio University Qesigning with Flowers and Decorative Material Ohio University Identification Foliage Plants I & II & III, Cornell Ed. Dept Poinsettia Ohio University Geranium, Ohio University FILMSTRIPS Greenhouses-Uses and Design, Cornell Department of Education
holiday demands of greenhouse and shop	c) Containers Design shop Wrap plants Make bows Maintain greenhouse-to in-	scotch masking Staples Wild Flowers Frames	MATH Curves Ruler measure	Teacher Made Materials Sales Slip Pads
	clude care of plants and up- keep Design and create terrariums View slides and filmstrips and complete- teacher made ditto sheet Choices of assignments for motivation, evaluation and ac- quiring of additional know- ledge and skills	Boards	Depth Dimension %-percentage	Teletrainer with Scripts
296				-297

JOB PROFILE WORKSHEET

I. JOB TITLE:

Greenhouse Worker (Helper)

II. JOB DUTIES:

Preparing plant beds

Propagation of seeds, bulbs, stock-plants, shrubs

Transplanting nursery stock

Preparing planting medias - soil, sand, artificial fertilizing, spraying,

pruning, and watering of stock

Care of Greenhouses, tools and equipment General maintenance and grounds and facilities

III. WORKING CONDITIONS:

Indoors in Greenhouse, often warm and very humid Outdoor conditions involve physical strength and frequently getting dirty - hands and clothes

Contact with chemicals and sprays

Year-round work, hourly pay and employer paid benefits

IV. JOB REQUIREMENTS:

Background in use of Greenhouse, cold frames and related structures

Knowledge of propagation techniques
Plant identification and care requirements
Soil and planting media preparation

V. JOB CONDITIONS:

Determined by field trips, guest speakers, etc.

VI. BASIC SKILLS & KNOWLEDGES:

General knowledge of Greenhouses and related structures, their uses, operation

and cababilities

Factors affecting germination, rooting and transplanting, and general plant growth Must understand measurements; linear, perimeter area and cubic, propagation techniques, also ratios formulas, charts and graphs, temperature, coils and other

planting media

Good memory and able to follow detailed oral instructions

VII. JOB PRACTICE:

Shop and laboratory experience

YIII. ACADEMIC DEAMNDS:

Reading: Labels and package instructions, generally minimal

amount required.

Math: Basic computations, area, perimetel, cubic calculations.

Ratios and formulas - follow graphs and charts

Lang. Arts. Verbal: Understood by co-worker, able to understand

verbal instructions.

Written: Labeling of stock

JOB PROFILE WORKSHEET CONTINUED

ADDITIONAL INFORMATION:

- L. Disadvantages: May be periodically laid off due to seasonal demand Atmosphere is generally dirty, warm, and humid Frequent contact with chemical sprays and powders Often physically demanding
- 2. Advantages: Employable without extensive training Tasks are generally repetitive in nature, can easily become very proficient During busy seasons, overtime available Chance for easy advancement or with basic skills after short time and small investment may become independent.
- 3. Training Opportunities: On the job and trade or vocational schools

 Extension courses at home

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OCCUPATION: Greenhouse Worker (Helper)

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LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATII	TEXT, WORKBOOKS, OTHER MATERIALS	
To become familiar with	Collete, identify and classify	Seeds	Height	Basic Gardening	
processess needed to grow	a) seeds	Soil	Weight	Sunset Series	
plants	b) plants	Sterilizer	Depth	Better Homes & Gardens	
To become familiar with	c) annuals	Perlite	Market packs	Gardenbook, McGraw Hill	
greenliouse maintenance	d) perennials	. Vermiculite	Perlite	Greenhouses and Related	
To become familiar with	e) vegetables	Sand	Vermiculite	Structures, Comell	
identification of annual per-	Grow seasonal plants	Market pack	Dibbles	Department of Education	
ennials, houseplants and vege-	c. Propagate plants	Dibbles	Pollination	Greenhouse Worker, Ohio Un-	
tables	Make charts of shade and	Plants	Germinate	iversity	
To become familiar with	sun plants	Garden knife	Peat pots	Greenhouse Crop Production	
different ways of growing and	Design and create terrariums	Trowels	Terrariums	University of Pennsylvania	
reproducing of plants	Design and plant miniature	Fertilizers	Plant names	Oniversity of Femisylvania	
To become familiar with	gardens	Pots	Greenhouse	SLIDES	
creating terrariums and gar-	Design and plant hanging	Greenhouse	Ph values	Effect of Air Pollution on	
dens	pots	Sprinklers **	Acid	Plant Life, Cornell Dept. of Ed.	
To become familiar with	Sell plants	Racks	- Alkalin	Poinsetta, Ohio U.	
seeding, transplanting and	Complete sales slips for	Shovels	Neutral	Geranium, Ohio U.	
potting	plant sales	Plastic sheets	Clay	Soil and Its Properties, Ohio U.	
To become familiar with	Cross pollinate plants	Labels	Styrofoam	Son and its i toperties, Onto U.	
sales and records	Make flats	Pens	Sterilize	FILMSTRIPS	
To become familiar with	Maintain greenhouse and	Seed catalogues	Propagate	Garden-Flowers (Annuals)	
different types of soil	work area	Boards	. ropagate	I & II, Cornell	
To become familiar with	a) clean	Nails		Department of Education	
forcing bulbs, shrubs, and trees	b) water		ļ	Propagation, Cornell	
To become familiar with	c) feed			Department of Education	
basic flower arrangements	d) trim	3	• .	Landscaping Do's and Don'ts	
To become familiar with	e) stake		, '	Cornell Department of Ed.	
supplies used by a florist	f) transplant			Greenhouses-Uses and Designs,	
To understand how and why	,	i		Cornell Department of Ed.	
to sterilize soil	Use seeds and plants to	i i	1	Comen Department of Ed.	
	study different shapes, colors,	,		TRANSPARENCIES	
` ,	sizes and growing procedures			All available from Cornell	
4	Plant identification			Department of Education:	
•	a) research books and pam-	,			
	phlots	İ		Plant Identification	
	b) make charts		,	Plant Propagation	
	c) label plants e			Pruning and Training Plants	
	Make a journal of plant		L .	Too oh on Mada Maria	
300	identification projects.		301	Teacher Made Material	
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OCCUPATION: Greenhouse Worker (Helper) Continued

LEARNING GOALS	· LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS, OTHER MATERIALS
	a) drawings b) charts			,
	b) charts Plant flower boxes	1	1	/
	Plant flower boxes Prepare proper soil mixes	i	1	
	per type of plants	1	· l	L / V
•	per type of plants Experiment with feeding of		j	.΄ / λ
	Experiment with feeding of plants	į	· I	<i>(</i>)
	Adjust ventilation, heat, and	i	- 1	, / \ \
	ii. Hojust Ventuation, neat, and light	1	i j	
,	Maintain stock	!	1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
. •	Gather various types of		1	
,	branches from outside areas		1	· //
	and discuss different charact-		,	
	eristics of each		· I	
	eristics of each Froce bulbs and plants	· f	1	/
	Proce builts and plants Pot		1	•
r	Store in cold frame		- 1	
	Remove from bloom		1 .	
			1	
	Create arrangements	İ		
•	a) wild flowers		1	
	b) plastic flowers		· [
	Sterilize soil		1	
	Test soil	1	, ,	•
	Practice writing sales slips	1	1	
	and making change	1	1 .	
•	View slides, filmstrips, and	1	1 .	•
	transparenceis and complete	. '	1	
	teacher made ditto for each	1	1	
	Choices of assignments for	1	1	
•	evaluation and motivation		1	,
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PERSONAL GROOMING/COSMETOLOGY OCCUPATIONS

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OCCUPATIONAL READINESS CENTER

COURSE: PERSONAL GROOMING/COSMETOLOGY OCCUPATIONS

UNITS:

First Quarter: Beautician

Manicurist

Personal Grooming (For selected students.)

Second Quarter: Same as First Quarter.

Third Quarter: Same as First Quarter.

Fourth Quarter: Same as First Quarter.

TRADE: Cosmetology/Personal Services

I. JOB TITLE: Beautician/Manicurist

II. JOB DUTIES:

Suggest hair styling, according to physical features of customer and current styles, or follow customer's instructions for styling.

Style hair by cutting, trimming, and tapering
Shampoo hair and scalp with various ingredients and rinses
Curl hair with rollers or pins
Apply bleach, dye or tint to color customer's hair
Suggest cosmetics for conditions such as dry or oily skin
Massage scalp and give other ahir and scalp-conditioning treatments
Clean, shape, and polist fingernails and toenails
Perform other beauty services, such as giving face or neck massages, shaping and coloring eyebrows or eyelashes, removing unwanted hair, or applying ahir-straightening liquids
Schedule appointments

III. WORKING CONDITIONS:

Work in a beauty salon or large shop

Be subject to cuts from scissors and razors and burns from hair dryers

Be esposed to strong odors from various hair preparations and lotions

Work with and around all kinds of people

IV. JOB REQUIREMENTS:

Speak, read, and write English-so as to understand instructions and speak to customers'
Complete a minimum of 1,000 hours in the theory and practice of Cosmetology in an approved school
Take and pass licensing examination to obtain a permanent license Renew license every 2 years
Use eyes and hands at the same time
Move fingers rapidly and accurately to work with small objects
Be alert to similarities or differences in colors
Be able to stand most of the day

V., JOB CONDITIONS:

Determined by field trips, guest speakers, etc.

VI. - BASIC SKILLS AND KNOWLEDGE:

Chemical compositions of nails, hair, skin Mixtures used in preparation of rinses, dyes, etc.

VII. JOB PRACTICE:

Shop and laboratory experience

VIII. ACADEMIC DEMANDS:

Reading: Be able to read directions for mixing various preparations

Math: Accurate measurement and timing

Verbal: Be able to understand and communicate with customers

Written: Be able to keep appointment books

Able to fill out various forms

ADDITIONAL JOB INFORMATION;

- 1. Disadvantages: Earnings vary greatly from week to week depending on amount of tips
- 2. Advantages: Part time work generally available
- 3. Training opportunities: Vocational Schools-Cosmetology Schools



TRADE: Cosmetology/Personal Services (Continued)

IX. EVALUATION:

As determined by team of teachers

OCCUPATION: Beautician Manicurist

NO. 1

LEARNING GOALS

... To know the skills and physical requirements to be a beautician

- ... To be aware of the working conditions
- ... To become familiar with the duties of the dispensary clerk and shopkeeper
- To become acquainted with safety precautions
- ... To understand bacteria and sterilization
- ... To identify equipment and its used
- ... To become familiar with the proper procedure for giving a manicure
- ... To become familair with proper procedure for a hand and arm massage
- ... To understand nail structure and disorders
- ... To become familiar with the proper procedure for giving a facial
- ... To understand skin and its functions
- ... To understand the necessity for a clean'skin
- ... To know and identify make-up
- ... To understand the proper use of make-up
- ... To become familiar with the composition of hair
- ... To become familiar with the proper procedure for giving a shampoo
- ... To become familiar with

LEARNING ACTIVITIES

- ... Reading and discussion of Job Profile (duties)
- ... Discuss safety/sanitation
- ... Discussion and reading of attitudes, grooming and at-
- ... Class discussion of the use of the dispensary checkout sheet and the proper procedure for checking supplies out and in
- ... Class discussion of state laws concerning sterilization and sanitation
- ... Display and identify equipment used in giving a manicure
- ... Demonstrate the correct procedure for glying a man-
- ... Set up the manicure table
- ... Students to pick a partner and practice giving a manicure
- ... Classroom, reading and discussion on the structure and disorders of the nail ... Display and identify equipment for a facial
- ... Test students' knowledge of the equipment used in giving a facial
- ... Demonstrate the correct procedure for giving a facial ... Students to choose a partner and practice giving a facial
- ... Classroom reading and discussion on the function

TOOLS, EQUIPMENT SUPPLIES

Manicure Dillow Soak bowl Polish Cuticle remover Nail polish remover -Base Nail hardener

Wonder nail Hand lotion Steel pusher Orange wood stick

Emery board Nail brush White pencil Spatula -

Cleansing cream Massage cream

Astringent Tissues

Creamy cleanser

Base Eve shadow Eye liner Mascara Blush Lipstick

O-tips Practikin

Practikin holder Afro comb-rake

Rat tail comb

Finger wave comb Afro pick

Hair lift . Round brush Hair brush

Roller caddy Clips

End papers

NEW TERMINOLOGY MATH

Manicure pillow Soak bowl Cuticle Steel pusher Orange wood stick Emery board

White pencil Dispensary clerk Shopkee per

Spatual

Cleansing cream Massage cream

Astringent

Creamy cleanser ' Cotton swabs

Practikin-

Practikin holder

Afro comb Rake

Rat tail comb Finger wave comb

Afro pick Roller caddy

End papers Spray bottle

Permanent wave Ear shields

Ultra Sheen Oven

Pressing comb Pressing curler

Pressing cream

Attitude Shampoo Manicure

Facial Styling

Comb out Buffer

TEXT. WORKBOOKS · OTHER SUPPLIES

Theory of Beauty Culture Rutgers University The Beautician McGraw Hill The Van Dean Manual Milady Publishing Company Standard Textbook of Cosmetology, The Keystone Guide to Beauty Culture Keystone Publications, Inc. Ethnic Hairdressing Rutgers University 24 Practice Hairstyles Featuring Classic Movements. Keystone Publications Mathematics for Cosmetology-Part I and II, Rutgers University

WORKBOOKS

Van Dean Theory Milady Publishing Co. Van Dean Practical . Milady Publishing Co.

TRANSPARENCIES Facial, Hair and Manicure

3M Company

SLIDES

The Many Faces of Beauty A Step-by-Step Make-up Application for Dark Skins. Milady Publishing Co. Basic Hairdressing Techniques, Teacher's Guide and . Slide Presentation, Rutgers University

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LËARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATII	TEXT, WORKBOOKS OTHER SUPPLIES
the proper procedure for a	and structure of the skin	Spray bottle	Manipulation	FILM LOOPS
piri curi set	View slides, listen to	Permanent wave rods	Rotate	Cosmetologist
To become familiar with	cassette and take quiz on	Bobby pins	Massage	Encyclopedia Britannica
the proper procedure for a	make-up application	Hair pins	Matrix	
roller set	Demonstrate the correct	Biow dryer	Nail bed	' FIELD TRIPS
To become familiar with	procedure for applying make-	Curling iron	Lunula	Land of Oz Beauty Salone
the proper procedure for a	up	Hair not .	Bacteria	International House of De-
permanent wave rod set	Classroom reading and dis-	Ear shields	Sterilization	sign `
To become familair with	cussion on hair composition,	Hair spray	Pores	Tech Center Classes
the proper procedure; for	structure analysis and dis-	Uitra sheen	Texture	•
comb outs and styling	orders and styles best suited	Oven	Acne	GUEST SPEAKERS
To become familiar with	for particular face shapes	Pressing comb	Disinfectant	Land of Oz Hair ,
the proper procedure for	Demonstrate the correct	Pressing curler	Follicle	Stylist
using the curling iron	procedure for a shampoo ,	Pressing cream	Medulla	Merie Norman Cosmetics
To become familiar with	Students to choose a	Cotton	Cortex	Holiday Magic Cosmetics
the proper procedure for "	partner and practice sham- >	. Buffer	Elasticity	Zuri Cosmetics
cornrowing	pooing	Towels	Porosity	Redkin Cosmetics
To become familiar with	View slides for pln curl	Manicure table	Root	
the proper procedure for	sets	Protective cloth	Shaft	Teacher made appointment
thermal straightening	Demonstrate the correct	Dryer	Bulb	sheets
To become familiar with	procedure for pin curi sets	Sink	Sectioning	Teacher made step by step
the proper procedure for	View slides of finger	. Shampoo	Dermatology	instruction sheets
thermal curling and waving	sets	Disinfectant solution	Elimination	Teacher made dispensary
To become familiar with	Demonstrate fingerwave	Container	Glands	check-out sheets
inventory and ordering pro-	sets	Lip stick brush	Absorption	Inventory forms
cedures	Demonstrate the proper	. Facial mask	Epidermis	Order forms
To become acquainted.	procedure for a roller set	Fake nails	Dermis	Receipts
with the receptionist duties	Students to practice cor-	Scissors ~	Appendage	Telephone book
of a beautician	rect methods of fingerwaving	Manicure stool	Free edge	Fake money /
To become familiar with	and roller sets	Styling chair	Hangnail	•
the actual operation of a	Demonstrate the correct	Shampoo chair	Keratin _,	· Teacher Made Materials
beauty saion	procedure for a permanent	Receptionist desk and chair	Mantie	
	wave rod set	Styling tables	Pedicure	•
,	Students to practice a	Rolling stőrage cabinets	Antiseptic	
	permanent wave rod set	Display unit	Back combing	
,	Display and discuss various	Teletrainer .	Cosmetics	
	hair styles and comb outs		Deodorant	
76/	Demonstrate comb-outs		Implement	• •
	and styling	v .	Nape 211	•

COURSE: Exploring Cosmetology/Personal Services

OCCUPATION: Beautician/Manicurist

NO. 1 (Continued)

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER SUPPLIES
	Students to practice comb-		Nippers	
	outs and styling		Pigment	, i
	Class reading and discus-		Sanitation	
	sion on blow drying		Sebum	
	Demonstrate using the		Inventory	
	curling iron	•	Receptionist	,
	Students to choose a		Receipts	
	partner and practice using	, ć	•	
	the curling iron		•	·/
· •	Demonstrate corn-rowing			1
•	Students to practice corn-	· ·		
	rowing		,	
•	Class reading and dis-	'		
•	cussion on thermal straight-			
,	ening curling and waving			
•	Display and identify equip-	٠.		
	ment used for thermal	3		,
•	straightening, curling and	,	•	i ,
	waving	_		j
	Test students' knowledge	1		4
	of equipment used in ther-			
:	mal straightening, curling and	,	•	
	waving	i		1
	' Demonstrate thermal	1 -,	•	1
•	straightening, curling and		•	,
•	waving]		
	Students to practice ther-			
۸ .	mal straightening, curling and		•	· ·
4	. waving -			1
į.	Class discussion and prac-	^		
	tice in completing inventory	1		
	and order forms	,	•	,
•	Students to count and			1
	list quantities on hand of		,	,
٠ ,	all supplies		•	· ·
	Students to complete order		4	
,	forms for items in short	· ·	•	313
· -	supply	<i>*</i>	·	•
'312	Using teacher made conversations, students order		•	
0	Anterioris' Strictures Organ	,	,	'
RIC ·	• *			
160	•	1 .	i	

COURSE: Exploring Cosmetology/Personal Services

OCCUPATION: Beautician/Manicurist

NO. 1 (Continued)

· LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES : 4	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER SUPPLIES
	supplies and take and re- cord appointments using the teletrainer Complete receipts, tôtal receipts, and make change Using teacher made ap- pointments for students in other classes			. ,
•	Complete receipts for appointments for students in other classes Students to perform various services for other students in the building Choices of assignments for motivation, evaluation,			
	and acquiring of additional knowledge and skills as a beautician			
		7		
ERÎC 6	314		31	5

PERSONAL GROOMING

PERSONAL GROOMING FOR SELECTED SPECIAL EDUCATION STUDENTS

- I. To introduce students to the importance of good grooming in any occupation.
 - A. Set up a grooming schedule and record daily.
- II. To learn the correct procedures for caring for the body.
 - A. Bath, shower or sponge bath.
 - B. Washing face and hands.
 - C. Acne
 - D. Eyebrows
 - E. Teeth and mouth care
 - F. Make-Up
 - G. Shampoo and hair care
 - H. Use of deodorant
 - I. Feminine Hygiene
 - J. Manicure
 - K. Hair removal
 - L. Pedicure
- III. To understand the importance of good nutrition and daily exercise on one's appearance.
- IV. To learn to choose the appropriate clothing for different occasions.
- V. To learn to care for clothing
 - A. Laundry
 - B. Dry cleaning
 - C. Simple mending
- VI. To be able to read the directions for using grooming products.
- VII. To form correct attitudes towards appearance and work.
- VIII. To be able to complete simple forms.
- IX. To be able to purchase grooming products.
 - A. Recognize and count money.
- X. . To acquaint students with job responsibilities and the importance of being on time.
 - A. To be able to tell time.



OCCUPATION: Preparation For Employment

NO: 1

LEARNING GOALS

LEARNING ACTIVITIES

TOOLS, EQUIPMENT SUPPLIES

NEW TERMINOLOGY MATH

TEXT, WORKBOOKS OTHER MATERIALS

... To acquaint students with the importance of good grooming.

... To introduce students to the principles of good grooming.

... To understand how frequently each grooming task should be performed.

... To learn how to properly cleanse the skin.

... To understand the correct procedure for taking a bath, shower or sponge bath.

... To learn the correct procedure for washing face and hands.

... To learn how to care for acne:

... To learn the correct procedure for tweezing evebrows.

... To learn how to correctly brush the teeth and use dental floss and mouthwash.

... To understand the importance of regular dental checkups.

... To learn to choose appropriate makeup.

... To be able to apply makeup properly.

... Complete teacher made self-care survey.

... Read, discuss and complete pages 1-3 in Plans For Living workbook, "Taking Care of Yourself".

... Distribute letters explaining the course for parental permission to perform grooming activities.

... Field trip to purchase appropriate supplies for each student.

... Distribute self grooming chart for daily, weekly, monthly and yearly requirements followed by teacher explanation and class discussion.

... Discuss how grooming can affect getting and keeping a job.

... Distribute personal grooming supplies and cases appropriate for each student.

... View films followed by teacher directed discussion. ... View filmstrip and listen to cassette followed by

... Demonstrate the proper cleansing of skin with step by step directions.

teacher directed discussion.

... Read, complete and discuss, "Taking Care of Your Body", page 22 in Plans For Living with teacher supervision and direction.

Folders Paper Pencils Survey

Cases
Grooming supplies

Soap Water Sink

Sink Shower

Wash cloth

Towel Cotton

Astringent Sea-breeze

Buff-puff

Softening cream

Tweezers Antiseptic

Mirrors

Tooth brush

Tooth paste Dental floss

Red Tablets

Mouth wash

Cups

Cream

Lotion Base

Eye shadow

Mascara Blush

Lip stick

Eyebrow pencil-

Washcloth Alcohol Grooming

Style Hair

Wash

Comb

Tweeze Evebrows

Repair Apply

Make-up

Manicure

Nails Daily

Shower

Deodorant

Body Ordor Dirt

Brand Names:

Safe-guard Dial

Life-buoy

Cost of above items.

Astringent Pore

Oil

Black hoad

Bacteria

Germs Acne

White Head

Tweezing Tweezers

Antiseptic

Anti**so**ptic

Arch

Eyebrow

Oral hygiene

TEXTS
Plans for Living,
Fearon Pub. Company

KITS

Personal Care, Proctor and Gamble Educational Services

FILMS

All About Me, State of New Jersey A Time and a Place, Sterling Films

Body Care and Grooming,

University of Missouri How to Be Well Groomed,

University of Missouri
Good Looks-Here and

Now, Modern Talking Pic-

tures .

FILMSTRIP & CASSETTE

Good Grooming General, RMI Educational Films, Inc.

FIELD TRIPS

CVS

Cecere's Rexall Pharmacy
Caldor's

TEXT

Plans for Living, Fearon Publishing Company







NO. 2

LEARNING GOALS

LEARNING ACTIVITIES

TOOLS, EQUIPMENT **SUPPLIES**

NEW TERMINOLOGY MATH

TEXT, WORKBOOKS OTHER MATERIALS

- ... To learn the proper procedure for cleansing the ears.
- ... To learn how to properly care for pierced ears in order to prevent infection.
- ... To learn how to totally care for one's own hair.
- ... To understand the reasons for shampooing. ... To be able to identify one's own hair type. ... To be able to choose the correct shampoo and conditioners.
- ... To learn how to correctly shampoo one's own hair.
- ... To be able to comb. part and blow dry one's own hair.
- ... To understand the importance of a good hair cut which is easy to care for.
- ... To understand what hair style is appropriate for one's self.
- ... To understand the causes of body odor. ... To be able to choose the proper deodorant. ... To know when and why deodorant should be used.

- ... Read and discuss Face and Skin Care from Personal Development.
- ... Have students practice taking a shower and giving themselves a sponge bath using the appropriate procedure...
- ... View and discuss film strip "Face Facts".
- ... Daily class discussion on alternative methods keeping the skin clean, with emphasis on the parts of the body that cause odors.
- ... Review critical vocabulary. ... Class discussion of how inexpensive it is to keep the body clean.
- ... View films followed by teacher directed discussion of each.
- ... Demonstrate the correct procedure for washing face and hands with step-by-step directions to include using the hands rather than a face cloth.
- ... Have students practice this procedure in groups of five at sinks under teacher direction.
- ... Have students close pores with the use of an astringent. ... Identify the students with acne.
- ... Read, discuss and complete "Taking Care of Your Skin",

Brush Comb Shampoo Cream rinse Blow dryer

Ultra-sheen conditioner

Rollers Round brushes

Picks Clips

Electric curling iron

Conditioner

Deodorants

Sanitary napkins

Sanitary pants Sanitary belts

Tampons

Toilet paper

Electric razor

Powder

Polish kit.

Orangewood stick

Soak bowl

Hand lotion

Emery board

White pencil

Bowl .

Nail clipper

Fake fingernails

Scale

Tape measure

A change of clothing

Samples of apparel for all

occasions

Samples of improperly

cared for clothing

Detergent

Dental Plaque Bad breathe Dental floss

Circular Mouth wash

Base

Eve shadow

Mascara . Blush

Lipstick

Eyebrow pencil

Eye lash Cheeks

Fore-head

Cosmetics

Cream Lotion

Gaudy

Natural

Cost of Items

Infection

Hearing loss

Deafness

Alcohol

14 carat gold

Ear drum

Cotton swabs

Oily hair Dry hair

Dandruff

Damaged hair

Lather Becomina

Attractive

Manageable ,

Blow drying

Roller

Personal Development

FILMSTRIP & CASSETTE

Face Facts, Skin and Hair Care, RMI Educational

Films. Inc.

FILMS It's Up To You. Armour-Dial Co.

The Beauty of You, Avon

KITS

Personal Care, Proctor and Gamble Educational Services

FILMSTRIPS & **CASSETTES** Self-Care Series, The Problem Acne, Interpre-

tive Education.

FILMS Teen-Aged? Have Acne?, Sterling Films Young Reflections. Modern Talking Pictures

Pictures taken from "Seventeen", "Glamour", "Ladies' Home Journal". "McCalls" and "Ebony".

LEARNING GOALS

LEARNING ACTIVITIES

TOOLS, EQUIPMENT SUPPLIES

NEW TERMINOLOGY MATH

TEXT, WORKBOOKS OTHER MATERIALS

... To understand the increased importance of cleanliness during menstruation.

... To be able to choose the correct products for use during menstruation. ... To be able to properly dispose of used products during menstruation.

... To understand the benefits of hair removal. ... To become acquainted with a method of hair removal.

... To be able to remove hair from under one's arms and one's legs.

... To learn how to properly care for the hands, nails, feet and toenails.

... To understand the manicure and pedicure and their benefits.

... To be able to give self a manicure and a pedicure.

... To understand the basic principles of good nutrition and how it affects personal appearance ... To learn the Basic Four Food Groups.

... To be able to evaluate one's own diet and correct it. page 23 in Plans for Living with teacher direction and supervision.

... Class discussion of the causes and prevention of acne.

... View filmstrip and listen to cassette on acne, its causes, prevention and cures followed by teacher directed discussion.

... Demonstrate use of the buff-puff,

... Have students develop and use a daily schedule for care of acne.

... View films followed by teacher directed discussion. ... Identify students who need to tweeze their eye brows. ... Demonstrate the correct procedure for tweezing eye-brows.

... Have those students who require it, tweeze their eyebrows under close teacher supervision.

... Introduce proper care of feeth by viewing film, Teeth Are Good Things to Have followed by teacher directed discussion.

... Read, discuss, and complete "Taking Care of Your Teeth" page 25 in Plans for Living with teacher direction and supervision. Bleach
Washing machine
Dryer
Ironing board
Iron
Hangers
Needles
Thread
Needle threader
Clothing items in need_of
repair
Various grooming products

Clip Scrub Clean rinse Lukewarm Hot Cold Shampooing Conditioner

Brand Names:
Tegrin
Sebulex
Clairol Herbal
Essence
Breck

Brand Names: Secret Pan. Mitcham Deodoraht Anti-perspirant Hygiene Sanitary napkin Sanitary pants Sanitary belt Tampon Germs Menstrual flow Menstruation Odor Perspiration, **Body Odor** Fèminine hygiene Shaving.

Rázor

Underarm

Break Beauty Boutique Pictures John H. Breck Inc.

FILMSTRIPS & CASSETTES
Self-Care Female, Medical, Dental and Optical Care, Interpretive Education
Teeth Care, Interpretive Education

FILMS Teeth Are Good Things to Have, Johnson & Johnson Take Time For Your Teeth, Sterling Films Healthy Teeth-Happy Smile, State of Missouri How To Clean Your Teeth State of Missouri Matter of Choice. State of Missouri Teeth, Modern Talking **Pictures** Gateway to Health. State of Missouri Teeth, The Development and Care, State of Missouri Preventive Dentistry in B Sharp, Modern Talking **Pictures** The Haunted Mouth, Modern Talking Pictures · Showdown at Sweet Rock Gulch, Modern Talking Pictures

ERIC Full Text Provided by ERIC



NO. 4

LEARNING GOALS

LEARNING ACTIVITIES

TOOLS, EQUIPMENT SUPPLIES

NEW TERMINOLOGY MATH

TEXT, WORKBOOKS OTHER MATERIALS

... To understand the 'value and benefits of daily exercise.'

... To be able to do simple exercises to improve personal appearance.

... To become acquainted with appropriate dress for different occasions. ... To be able to coordinate colors.

... To be able to coordinate patterns and designs.

... To be able to choose appropriate shoes, socks and stockings.

... To understand the importance of the proper care of clothing.

...To be aware of the different cleaning methods of clothing and be able to determine the proper one.

... To be able to do laundry by hand.

... To be able to do laundry in an automatic washer and dryer.

... To be able to recognize dirty clothing.

... To be aware of clothing, which must be laundered after each use.

... Demonstrate the correct procedure for brushing teeth. ... Read and discuss "Care'of the Teeth" in Personal Care with teacher direction and supervision.

... Have students practice step-by-step brushing procedure in groups of five with the teacher.

... View films, Take Time for Your Teeth, Healthy Teeth-Happy Smile, and How to Clean Your Teeth followed by teacher directed discussion ... Following brushing students are to chew red tablet to indicate portions of teeth that have gone unbrushed. ... Have students brush again

... Have students brush again where indicated.

... View films Matter of Choice, Teeth, Gateway to Health, and The Haunted Mouth followed by teacher directed discussion.

... Demonstrate the use of dental floss.

... Have students practice using dental floss.

... Demonstrate the use of mouthwash.

... Have students view filmstrips and listen to cassettes on dental care followed by teacher directed discussion of each. Manicure
Cuticle
Orangewood stick

Soak bowl Hand lotion

Emery board White pencil

Polish Polish remover

Rase

Cuticle remover

Pedicure

Nail clipper

File

Hang nail

Chapped

Nutrition

Diet

Balanced

Four Basic Food Groups Count and measure ser-

viņgs Height

Weight

Measurements

Bust '

Thigh

Calf

Ankle

Upper arm

Posture

"Standing tall"

Inch

Dress clothing

Work clothing

Casual clothing

Merlin's Magical Message, Modern Talking Pictures

FIELD TRIPS Local dentist's office

SLIDES Milady Make-up Slides Milady Pub. Co.

FILMSTRIPS &
CASSETTES
Self-care Female Make-up
Thterpretive Education

RESOURCE BOOK
The Great Looks Book
Bonnie Bell
Editorial Services Inc.

FILMSTRIPS &

CASSETTES
Self-Care Female, Hair
Care, Interpretive Education
Face Facts-Skin & Hair
Care, RMI Educational
Films, Inc.

FILMS
Really Understanding
Your Hair,
Modern Talking Pictures

MAGAZINES
American Hairdresser

ERIC III TEAR Provided by ERIC

NO 5

LEARNING GOALS

LEARNING ACTIVITIES

TOOLS, EQUIPMENT **SUPPLIES**

NEW TERMINOLOGY MATH

TEXT, WORKBOOKS **OTHER MATERIALS**

... To learn to do simple mending.

... To be able to read the directions for using grooming products.

... To be able to select suitable grooming products within an available budget.

... To form the correct attitudes toward appearance and work.

... To be able to complete simple forms.

... To be able to recognize and count money. To be able to tell time.

... To acquaint students with job responsibilities and the importance of being on time.

... View films Teeth, The Development and Care and Preventive Dentistry in B Sharp followed by teacher directed disuession.

... 'Field trip to a dentist's office.

... Identify each students last dental appointment.

... Class discussion of importance of visiting the dentist every six months.

... View films Showdown at Sweet Rock Gulch and Merlin's Magical Message followed by teacher directed . discussion.

... Class discussion of the purpose of make-up, to include the appropriate and inappropriate use of make-

... View make-up slides, followed by discussion and teacher made quiz.

... Teacher to read "Makeup and Special Creams or Lotions" followed by class discussion.

... Identify students who wish to learn to use make-up.

... View filmstrip and listen to cassette on make-up.

... Have those students who wish to do so, practice applying make-up on a daily basis under close teacher supervision, after they have

Clash Coordinate Sloppy Neat Proper fit Patterns Desians Gently cycle Lukewarm Cool

Wash and wear Drip dry Tumble dry Dry clean only Cool iron

Permanent press Machine wash Hand wash Laundromat Shrink

Wrinkles Stains Spots Ground in dirt Detergent

Bleach Directions Massada **Thoroughly** Saueeze

Excess Distribute Evenly

Work through Apply

327

Re-apply Ďaily

WORKBOOKS Practice Hairstyles, Keystone Pub. Company

Guest Speakers

KITS . "Growing Up and Liking Recorded Lessons in

Feminine Hygiene for Special Education Classes. The Feminine Hygiene Kit Personal Products Co.

FILMS Naturally a Girl Kimberly-Clark

Teacher Made Pictures

FILMSTRIPS & **CASSETTES** Self-Care Female-Hand and Foot Care Interpretive Education

TEXT Personal Development

Magazine pictures of the pedicure.

Teacher made laminated paper nails



OCCUPATION: Preparation For Employment

LEARNING GOALS LEARNING ACTIVITIES

TOOLS, EQUIPMENT SUPPLIES

NEW TERMINOLOGY MATH

NO. 6

Weekly

TEXT, WORKBOOKS OTHER MATERIALS

practiced washing their face and hands. ... Have students identify appropriate and inappropriate make-up for different occa-

... Use Bonnie Bell Book for students to practice coloring in make-up with chalk and cravons.

sions in magazines.

... Have students evaluate how make-up looks on each other.

... Read, discuss and complete "Taking Care of Your Ears", page 28 in Plans for Living with teacher supervision and direction.

... Class discussion of the importance of proper ear care to include the ill effects of cotton swabs or sharp objects in the ears.

... Demonstrate the proper procedure for cleansing ears. ... Students to practice cleaning their own ears with close teacher supervision.

... Demonstrate the appropriate care of pierced ears. ... Students with pierced ears to practice care with close teacher supervision.

... View filmstrips and listen to cassettes on hair care followed by teacher directed discussion.

Bi-weekly Annual Cooperate Temper Share Popular Patience Stealing Arquina Problem Solva Instructions Personality Application Middle name County Country City State Sinale Zip code Married-Social Security No.

Male

Divorced

Widowed

Mother's name

Father's name

Schools attended

Subjects studied

U.S. citizen

Dependents

References

Employee

Employer

Female

FILMS
The Beauty of You, Avon
And Everything Nice.

State of Missouri

Cardboard and flannel

Cardboard and flannel foods, Balanced Meals, Instructor

FILMS
Facts About Figures,
State of Missouri
Posture Habits,
State of Missouri
Posture in Motion,
Modern Talking Pictures
From Toe to Tip,
State of Missouri

TEXTS
Going Places with Your
Personality,
Fearon Publishing Co.

MAGAZINES McCall's Ladies' Home Journal

Articles of clothing

Laminated paper dolls and clothing

Teacher made materials

FILMS
Clothing Communicates,



LEARNING	GOALS

LEARNING ACTIVITIES

TOOLS, EQUIPMENT **SUPPLIES**

NEW TERMINOLOGY MATH

TEXT, WORKBOOKS OTHER MATERIALS

... Read, discuss and complete "Taking Care of Your Hair". page 24, in Plans for Living with close teacher direction and supervision.

... Identify each student's hair and scalp type.

... Assign the proper shampoos and conditioners for each type.

... Assist each student in determining how frequently to shampoo.

... View films followed by teacher directed discussion.

... Teacher to read and discuss "Care of the Hair". Personal Care.

... Demonstrate the proper procedure for shampooing one's own hair with step-bystep directions.

... Have students practice combing tangles out of their hair prior to shampooing.

... Demonstrate the appropriate method of washing one's comb and brush prior to shampooing.

... Have students wash their own comb and brush.

... Have students practice in groups of five shampooing their own hair again with step-by-step instructions.

... Demonstrate the proper procedure for parting the

Previous Employment Penny

Nickel Dime

Ouarter

Half dollar

Silver dollar One dollar bill

Two dollar hill

Five dollar bill

Ten dollar bill

l cent

5 cents

10 cents

25 cents

50 cents

\$1.00 \$2.00

\$5.00

\$10.00

Counting money and

change.

Shifts

Check-in-time

Work station Daily time

Schedule

Quitting time

Modern Talking Pictures Clothes and Your Line and Proportion. State of Missouri

FILMSTRIPS & **CASSETTES** Self-Care Series. Wardrode, Interpretive Education Fashion Formulas.

RMI Education Films

FIELD TRIPS Caldor's Pickwick Village Shoetown **Econowash**

Teacher Made Grooming Chart

TEXTS Going Places with Your Personality Fearon Pub.

FILMS. Your Job-Good Work Habits. University of Missouri

WORKBOOKS A Step-by-Step Approach to Learning How to Fill **Out Application Forms** Frank E. Richard Pub. Co. Inc.

			110. 8	•
LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MÄTH	TEXT, WORKBOOKS OTHER MATERIALS
•	hair Have students part their own hair Demonstrate the use of the blow dryer.	h		Money Makes Sense, Fearon Publishing Co. Time and Telling Time, Fearon Publishing Co.
• *	Have selected students practice using the blow dryer under close teacher supervision Demonstration and class	1	•	FILMSTRIPS & CASSETTES Money, Interpretive Edu. Time, Interpretive Edu.
	lecture by a professional beautician emphasizing the importance of the hair cut and the appropriate style for the individual.			Coin Puzzles Money Game Coins and Bills, Developmental Learning
	Using magazines, pictures and styling books assist students in choosing a becoming hair cut and style which they can manage themselves.		*	Materials
	Teachers to provide the opportunity for the hair cut to be given Practice on hair care procedures to continue		·	
,	throughout course. Class discussion of the causes of body odor and the parts of the body, most likely to produce odor.		,	
•	Display and discuss different types and brands of deodorants and anti-perspirants Teacher directed reading			
332 RIC	and discussion of deodorants using the Personal Care Kit, Deodorants.			333
KI(1		1	1

OCCUPATION: Preparation For Employment

NO. 9

LEARNING GOALS	LEARNING ACTIVITIES
	Students to be assisted in choosing the proper deo dorant for themselves. Teachers will encourage the use of a roll-on. With teacher instruction
į	and close supervision, students will apply deodorant following their showers. Students to view "Naturally a Girl", followed by class discussion. Teacher edited "Growing
	Up and Liking It" from the Proctor and Gamble kit to be read to class.
•	Display and discuss various products available for use during menstruation Class discussion of why odor is caused by infrequent changes.
•	Discuss and demonstrate proper methods for disposing of soiled sanitary napkins Discuss the increased odor
•	caused by underarm hair View pictures showing models with and without hair on legs and underarms
•	Class discussion of the models with better appearance.
	Demonstrate removal of hair from underarms and legs using an electric razor Students to practice in

groups of five with close

teacher supervision.

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TOOLS, EQUIPMENT	
SUPPLIES	
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*NEW TERMINOLOGY

MATH

TEXT, WORKBOOKS OTHER MATERIALS

•	•	·		, , •
LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
	Built in safety to include, never using an electric razor in a bathroom; or around		:	*
4	water.	•		
	Discuss the importance of properly caring for the hands			
•	and feet View filmstrip and listen	,		•
	to cassette on hand and foot care.	` '3	•	4 .
•	Read and discuss "Care of	•		,
٥	Hands and Nails" from the Proctor and Gamble Kit.	••	'	. • • • • • • • • • • • • • • • • • • •
,	Read and discuss "Finger nail care" from Personal			
• .	Development Display and identify mater-	,		,
	ials and supplies used for manicuring and pedicuring.			,
•	Demonstrate the manicure,		1	•
,	using step-by-step instruction Have students practice	~		
•	filing fake nails Have students practice	,		•
,	polishing laminated paper · nails.	,	, , ,	•
	Have students practice giving themselves a manicure,			
•	following teacher's step-by- step instruction.			·
	Students to practice giving themselves a pedicure under			$\hat{}$
	close teacher supervision.	,		
	Teacher directed discussion on how nutrition affects			,
·	appearance.		,	337
000		. {		
336 336		. ()		* 4

			110. 11	
LEARNING GOALS LEARNING ACTIVITIES		TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
	Read, discuss and complete exercises "Helping Your Body to Grow", page 9 in Plans for Living with teacher direction and supervision Students to list foods consumed previous day and with teacher direction evaluate nutritional deficits Students to place card-board food into four basic	5	A.	
	food groups Field trip to Friendly's to buy a balanced breakfast and provide an opportunity to practice newly learned grooming skills Read, discuss, and complete exercises on "How Much You Should Weigh", page 21 in Plans for Living with teacher direction and			
· · · · · · · · · · · · · · · · · · ·	supervision. Read, discuss and complete exercises on "Keeping Your Body Strong", page 30 in Plans for Living with teacher direction and supervision. Weigh and measure each student to include wrist, bust, hip, thigh, ankle, and upper arm.			
ERIC C	Determine ideal weight and measurements and establist goals for each student.		335	

·			•	•
LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT , SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
	With teacher direction		()	
•	and participation students	1	,	1
•	exercise. ' .	1	٠	1
•	Read and discuss 'Pos-	Į,	. , , ,	1
	ture", Personal Development.		,	1
	Students to check pos-		,	4
	ture in mirrors to evaluate	. 1	j.	<i>i</i>
•	"standing tall".	j	•	1
*	View films and discuss	1	;	
,	the importance of daily exer-	1	J	
	cises.	į	Ţ	,
	View filmstrips and listen		J	
<i></i>	to cassettes followed by	ı	• 1	,
	teacher directed discussion.	i	J	
•	Display pictures and ask	1	l.	
	students to decide where	j	1	
	people could be going in		J	
4	these outfits.	j	j	
	Show articles of clothing		ł	
	and ask students where each	, I	1	·
	might be worn and why.	ı	1	
	Read, discuss and complete			
	page 23 in Going Places with	1	1	
		1	1	
	Your Personality with close	1		
	teacher direction and super-	1	. , ,	
	vision.	1		S 2 2 2
•	View films followed by	1,	1	
	teacher directed discussion of	1	1	
•	patterns.	1	. 1	•
·	Ask each student to	. 1	I	
j.	choose the proper attire for	, I	I	
,	work, play or school for the	1		
,	various seasons of the year.	1	1	•
,	Each student to prepare	i	f	•
,	a shopping list of needed	, , 1	. 1	~
, , , , , , , , , , , , , , , , , , ,	clothing items if they were	Ī	,	341
, , , , , , , , , , , , , , , , , , ,	going to work.	1	1	
34 0	1	-	I	•
ERIC	.	1		
LRIC	1	.	·	•
ull Text Provided by ERIC	1	, ,	ı	

OCCUPATION: Preparation For Employment

,		•	•	
LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
	Use Sears Catalogue to have students choose appropriate items Field trip to Pickwick Village, Caldors and Shoetown to practice the selection of clothing.		÷.	
	Class discussion of fact that all clothing has a care label Display various articles of clothing in which students			·
·	must find care labels Help students learn to read and understand care labels Display items that have not been cared for properly	•		
	and discuss the consequences Field trip to Econowash to learn to use washers, dryers and cleaning machines Demonstrate hand washing			•
·	Have class practice washing small items by hand Demonstrate the use of home washer and dryer in classroom.			
	Have class practice using the home washer and dryer Display examples of clothing with the most common type of soil e.g. spots, ring-			•
•	around-the-collar With teacher direction have students identify the soil and clean the clothing	,	343	,
CRÍC.	appropriately. 342			

OCCUPATION: Preparation For Employment

	,			
LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
· .	Identify students wearing soiled clothing have them change into their extra set of clothing and have them wash, dry and fold or hang up the clothing they were wearing.			
	Class discussion of clothing which must be laundered after each use Demonstrate threading a needle using a needle threader Students to practice		1	. (
	threading a needle with teacher supervision Demonstrate sewing on a button, repairing a hern and repairing a seam Students to practice these procedures on items of cloth-		4	
	ing in need of repair which, they have brought from home Have class practice reading labels on various grooming products Compare examples of ex-			•
	pensive products to inexpensive products Teachers to assist each student in determining which grooming product they can afford Students will review, with		<u> </u>	
	teacher, their teacher made grooming charts, daily, throughout the course.			345
RIC 34-				•

OCCUPATION: Preparation For Employment

LEARNING GOALS	LEARNING ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
	Students will sign up to			,
	do their daily, weekly and	1		
	bi-weekly tasks where need- ed, each day, with teacher	. 1	1	
	assistance.	· I	1	
	View and discuss film,	l		
	Your Job-Good Work Habits	•	,	,
	Read, disucss and complete	• .	,	:
	"Getting Along With Others",	- 1	1	•
	"Getting and Giving Help"	1	1	٠
	and "Getting and Giving	• •	Ţ	•
	Instructions", page 13-38, in	-	-t	
	Going Places with Your Per-		1	
	sonality, under close teacher	1		•
	supervision and direction.	I	-	
•	Teachers to role play	ł	~	
	inappropriate work habits to	- 1	1	
	develop student understand-		. 1	,
,	ing.	1	1	
1	Students to take a pre-	I	I	
	test to determine what infor-	. [
•	mation they can already fill	1		
	in on an application. Students will be placed	Ī	J	
	Students will be placed at their own level in filling	~	1	
	out applications and will pro-	1.	1	
	ceed at their own pace in			
	learning how to fill in infor-	į.	Ĭ	
	mation.	1	1.	
•	When all aspects of the	1	1	
	application are mastered stu-	.]	j	
* •	dents will complete a post-	1	1	
	test.	1		,
•	Teacher to work with	į		•
	selected group of students			
	in identifying coins.	1		
,		[347	
-			24	
RIC •	1 - 1		1	
RIC	346		,	

*

OCCUPATION: Preparation For Employment

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LEARNING GOALS	LEARNING'ACTIVITIES	TOOLS, EQUIPMENT SUPPLIES	NEW TERMINOLOGY MATH	TEXT, WORKBOOKS OTHER MATERIALS
	View filmstrip and listen	\	1	
	to cassette on money follow-	•	1	
	ed by teacher directed dis-	•	į į	4
./	cussion.	•	Ţ	i e e
· ·	Selected students to prac-	•	J .	r
•	tice purchasing grooming pro-		l. ·	1
	ducts with close teacher	,	l' ,	1
	supervision.	/	· ,	1
•	Assign selected students	•	1 '	1
	Money Makes Sense books		1 ,	
	for additional practice in	,	1 . ,	`
	identifying coins.	. "	1 ,	,
•	View filmstrip and listen	,	1 '	
	to cassette on time followed	, ,	1 4	
•	by teacher directed discussion	× ,	1	
	Teacher to work with	, ,	1 · .	
′, •	selected group of students	,	1	,
•	who are unable to tell time.	ı	f	
	Read, discuss and complete	,	1	•
	"The Parts of the Clock",	, ,	1	
	"The Parts of the Clock", "Telling the Hour", "Measur-	J	1	
	ing Time", "After the Hour",	· ,	1 -	
•		j,	1	
	"Before the Hour", "Half	, ,	1	•
,	Hours", and "AM and PM		1	
,	Make a Day" in Time and		1	
	Telling Time with close teach-	, J	1	•
•	er supervision.	· J	1 /	
		• ,	1	•
	"Being on Time", page 3 and	,	(]	
	"Getting Things Done", page	j.	· ·]	•
*	39 in Going Places with Your	!	4	,
	Personality with close teacher	J.	<i>``</i>	•
	supervision and direction.	ļ	- 1	•
	1	,	4	
•	1		<i>i</i> •	•
	1.	· · · · · · · · · · · · · · · · · · ·	4	0.40
242		Ţ	4	349
343	,	ļ	, ·	
0		. 1	<i>,</i> • • • • • • • • • • • • • • • • • • •	
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GENERAL PROGRAM INFORMATION

35)

ERIC Full Text Provided by ERIC

BOARD OF COOPERATIVE EDUCATIONAL SERVICES Putnam/Northern Westchester Education Center Yorktown Heights, New York 10598

OCCUPATIONAL READINESS CENTER OCCUPATIONAL EDUCATION

SCREENING REPORT	DATE
Student (Last Name) (First)	_DistrictSchool
Address	
Date of Birth Sex	Telephone No.
I.Q. Date & Test /	^ Attendance ' ')
Present GradeCounselor	Number of days out
* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *
1. AGRICULTURE OCCUPATIONS	_ 6. HEALTH SERVICE OCCUPATIONS
BUILDING TRADES	7. AUTO TRADES
3. PERSONAL GROOMING (Selected)	8. COSMETOLOGY
4. FOOD TRADES	9. METAL TRADES
PERSONAL SERVICES (Selected)	10. BUILDING MAINTENANCE OCCS.
* * * * * * * * * * * * * * * * * * * *	******
Family Name	Address
Father	Mother
Siblings	
Guardian	
erson to notify in lieu of parents	Phone No.
amilý Physician	Phone No.
arental attitude regarding BOCES and the R	
as referral discussed? Response	
washoms.	

(Continued on Reverse Side)

351 -

CONTENHALING INTORNALION	, Door officer
Pattern of academic development:	Handicapping Condition:
•	Mentally Retarded
Strengths	Emotionally Disturbed /
	Specific Learning Disabled
Weaknesses	Speech Impaired
	Deaf-Blind
·	Orthopedically Impaired
Interests	Visually Impaired
•	Deaf Hard of Hearing
Behavior - Include situations producing	Other Health Impairment
desirable of undesirable behavior.	Multihandicapped
	Disadvantaged/Special Needs
Reading:	Math:
Actual Reading Level	Actual Arithmetic Level
Limited English Proficiency	·
Yes No	Major Language Spoken
* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *
ADDITIONAL INFORMATION NEEDED FOR PLACEMENT:	,
Prior attendance in Special Education (if ap	plicable)
BOCES	DISTRECT
Date	, -
COMMITTEE ON THE HANDICAPPED Date	DISTRICT
VOCATIONAL/EVALUATION CENTER	DISTRICT
Date	

ATTENTION:

- 1. All above requested information must be completed in full.
- 2. Additional information, such as teacher comments, recent psychological reports and transcripts should be included with the screening report.
- 3. Copy of student's most recent IEP.



BOARD OF COOPERATIVE EDUCATIONAL SERVICES Putnam/Northern Westchester Education Center Yorktown Heights, New York 10598

OCCUPATIONAL READINESS CENTER Occupational Education

MEDICAL FORM		DATE
STUDENT'S NAME		
Is this student receiving med	dication?_ •	Name of Medication
Dosage: -How.much?		How often?
Has the student had any of the	he following ill	nesses?
Heart Disease	<u> </u>	Diabetes
Asthma & Hay Fever		Epilepsy
Back Ailments		Grand Mal
Rheumatic Fever		Petit Mal
Is this student to wear glass Not at all	ses? (Please che All the time	Reading only~
Does this student have any he Any ear defects?		
Any skin disorders (diseases)		Heart defects?
* * * * * * * * * * * * * * * * * * *	WORK MORE EFFEC	ONS YOU ARE AWARE OF WHICH TIVELY WITH THIS STUDENT.
	353	School District

STUDENT EVALUATION	STU	JD	EN	IT	EV	A	LU	A.	TIC)N
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EXPLORATORY OCCUPATIONAL EDUCATION PROGRAM BOARD OF COOPERATIVE EDUCATIONAL SERVICES Sole Supervisory District

Name	Home School										Date								
Teachers	Course											Quarter 1 2 3 4Days Absent							
MARKING SYSTEM: E-EXCELLEN	T				G-	GOOD S—SATISFACTORY	-IMPROVING U-UNSATISFACTORY								_				
PERSONAL DEVELOPMENT	E	G	8	1	U	LABORATORY/SHOP PERFORMANCE	E	_	_	1	u l	RELATED ACADEMICS	E	a	8	1			
TAKES PART IN GROUP ACTIVITIES	T		П		\neg	WORKS WITH SUSTAINED ATTENTION	\dashv				\dashv	WORKS WITH SUSTAINED ATTENTION	-	╛	4	끅	_		
RESPECTS PROPERTY OF OTHERS	T		П	٦	\neg	WORKS WITHOUT SUPERVISION	\dashv			┪	ᅱ	WORKS WITHOUT SUPERVISION	\vdash	\dashv	\dashv	-+	_		
IS COOPERATIVE			П		コ	WORKS ACCURATELY	\dashv		\dashv	\dashv	\dashv	IS EQUIPPED FOR CLASS WORK	\dashv	\dashv	\dashv	\dashv	_		
WORKS WELL ALONE	1			\exists	コ	USES GOOD JUDGEMENT	寸	-	\dashv	\dashv	⊣	PARTICIPATES IN CLASS	\dashv	\dashv	\dashv	\dashv			
SHOWS SELF-CONFIDENCE	1	П	Ħ	7	乛	PERFORMS SAFELY	十	\dashv	┪	\dashv	\dashv	COMPLETES ASSIGNMENTS	\dashv	\dashv	\dashv	\dashv	_		
SHOWS INITIATIVE	T	П		1	ᅱ	PARTICIPATES IN GROUP	寸		\dashv	\dashv	-/	USES OCCUPATIONAL MATH	\dashv	\dashv	\dashv	+	_		
ACCEPTS RESPONSIBILITY	1	П	Ħ	7	ヿ	HAS DEXTERITY AND COORDINATION	\dashv	\dashv	+	\dashv	4	USES OCCUPATIONAL VOCABULARY	\dashv	\dashv	\dashv	-+	_		
FOLLOWS DIRECTION	\top	\Box	\dashv	7	┪	USES EQUIPMENT APPROPRIATELY	\dashv	\dashv	+	\dashv	\dashv		4	4	\dashv	\dashv	_		
MAKES DECISIONS	T		\top	+	┪	DRESSES APPROPRIATELY FOR SHOP	十	\dashv	\dashv	+	-{	UNDERSTANDS OCCUPATIONAL INFORMATION	4	4	\dashv	\dashv	_		
SEËKS HELP	\top	\Box	十	1	\dashv	HAS SELF-CONTROL	十	\dashv	+	\dashv	-					ユ	_		
ACCEPTS CORRECTION	T		\top	+	\dashv	WORKS NEATLY	+	\dashv	\dashv	\dashv	\dashv						_		
HANDLES MINOR DISAPPOINTMENTS			\dashv	+	ヿ		+	-	\dashv	\dashv	\dashv	LABORATORY/SHOP GRADE			<u>.</u>				
IS COURTEOUS AND CONSIDERATE		\vdash	7	\dagger	一		+	\dashv	+	+	\dashv	CLASS GRADE					_		
PRACTICES GOOD HEALTH HABITS	1-	\forall	+	+	\dashv		+	\dashv	+	\dashv	\dashv					,			
•	Н	+	\dashv	╁	\dashv		+	+	+	+	-	AVERAGE					_		
				1	丄		\pm		\pm	1		grade - J.							
THIS STUDENT SEEMS TO HAVE (MUCH, SOME, LITTLE) POTENTIAL IN THIS OCCUPATIONAL AREA AND (SHOULD, SHOULD NOT) CONSIDER IT FOR FURTHER TRAINING.																			

PARENT



